

Astronauts On Tour Represent Team Effort

By Bill der Bing

Astronauts, because of the public's great interest in their activities, are goodwill ambassadors for the United States space program.

In the past, the flight crews have journeyed around the world, sharing their experiences in space with people in foreign countries and in the United States and telling the American story of achievements in space. They have also expressed on many occasions to audiences the importance of the team effort which is such a vital part of the space program.

The Apollo 14 astronauts, Alan Shepard, Stuart Roosa, and Edgar Mitchell, have already begun their tour of the United States. Stateside tours are, in some ways, more hectic than overseas tours, partially because of the short airborne time between events.

The first stop on their tour was Washington, D. C. Here they

held press conferences, addressed a joint session of Congress, and dined at the White House.

The wives, children, and parents of the astronauts are included in the official party when visiting the White House. President Nixon's daughters, Tricia and Julie, conducted the Shepard, Mitchell, and Roosa families on a tour of the First Family's home.

Using Camp David as a base, the astronauts and their wives flew into Washington for TV appearances and for a dinner with the Radio and Television News Writers. The children, remaining at Camp David, found, among other delights, a private two lane bowling alley.

In Chicago, with temperatures in the low 20's and snow coming down, people lined the sidewalks to welcome the Apollo 14 crew and their families. The fireboats saluted with sprays of colored water to coordinate with the

ROUNDUP

NASA MANNED SPACECRAFT CENTER

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red, white, and blue fireworks as the parade wound its way onto State Street and through the heart of Chicago.

One of the most heartwarming events was a visit to the Shrine Children's hospital for crippled youngsters. The astronauts visited at the bedsides of most of the children, asking them questions and answering questions such as "What does it feel like to be on the Moon? Were you scared?" and so on.

The astronauts also met with a group of 1,000 junior high school students from the Chicago public schools for an hour and a half question-and-answer session. The teenagers' queries were incisive, and their response to the astronauts and to the space program was enthusiastic.

Mayor Richard Daley of Chicago hosted a luncheon for the astronauts and presented them with medals. They also attended a special meeting of the City Council and were made honorary citizens of Chicago.

The crewmen and their wives went on to New York City where they made appearances on a number of television programs. Mayor John Lindsay and his wife escorted the astronaut families to a Broadway show. The crew members also received medals of the City of New York.

Nixon Nominates New NASA Chief

Dr. James C. Fletcher, currently president of the University of Utah, has been nominated by President Richard M. Nixon as the new Administrator of NASA to replace Dr. Thomas O. Paine, who resigned from the post last September 15.

Dr. Fletcher has a doctorate in mathematics and physics from the California Institute of Technology. He received his bachelor's degree from Columbia University in New York.

He has been a researcher at Harvard, a professor at Princeton and the University of California. (See FLETCHER page 4)

Apollo 16 Crews Are Announced

The prime and backup crews for the Apollo 16 mission, scheduled for launch in March 1972, have been announced.

Prime crewmen are John W. Young, Commander; Thomas K. Mattingly, Command Module Pilot; and Charles M. Duke, Jr., Lunar Module Pilot. Backup (See APOLLO page 4)



WHITE HOUSE DINNER—President and Mrs. Richard M. Nixon and Vice President and Mrs. Spiro T. Agnew pose at the stairway in the White House with the Apollo 14 astronauts and their wives (l. to r.) the Edgar D. Mitchells, the Stuart A. Roosas, and the Alan B. Shepards.

Piland Explains Goals Of New Directorate

Response — economy — quality — these are three of the key words expressed by Joseph V. Piland as he spoke of the goals and responsibilities of the newly-formed Center Operations Directorate of which he has been named Director.

Mr. Piland has recognized the need for faster response to requests for services. He considers it essential to meet requests efficiently and, at the same time, economically.

In line with increased concern for economy, he indicated that established procedures would be questioned—are they still suitable, necessary or economical? Every attempt will be made to reduce, insofar as possible, the paperwork required to initiate a service by one of the organizations within the directorate.

With all the thought given to responding quickly and performing services with an eye to keeping costs down, Mr. Piland is also greatly concerned about the quality of the actual work.

Combining measures gauged to

increase economy of operation and to decrease the time between request and response with efforts to continue improving the quality of services will prove challenging.

Five divisions — Photographic Technology, Logistics, Technical Services, Engineering, and Management Services — are included in the Center Operations Directorate. There are 550 civil service employees and 1500 support contractors.

A new office, the Support Services Office, has been set up to manage the new consolidated contract recently awarded to the Service Technology Corporation.

The work of the directorate covers a wide spectrum of activities, disciplines, and skills, from printing, transportation, facility design and construction to library science, photography, mail distribution, and telecommunications, to name but a few.

The area of responsibility that causes greatest frustration is that of space allocation. To find available office space is often difficult;

(See GOALS page 3)

NHA & ISA Fund Drive To Begin on Monday

How fortunate we are, as Americans, to have such high standards of health in our nation. The National Health Agencies (NHA) are private, non-profit agencies which carry on programs of medical research, education and community services. They play a vital role in maintaining and improving our health standards and in promoting better health for all Americans.

The International Service Agencies (ISA), which includes CARE, the American-Korean Foundation, Planned Parenthood-World Population, and Project HOPE (Health Opportunity for People Everywhere), are attempting to improve health standards and living conditions of persons throughout the world—to pass on some of our good fortune to others.

Monday, March 15 marks the

beginning of a drive at MSC to raise money to support the work of NHA and ISA. The campaign will last for one week.

No one will be asked to contribute more than he feels he can afford. But it is hoped that everyone will contribute something to both the NHA and the ISA, which are separate organizations, to help MSC reach its goal of 100 per cent participation.

The agencies seeking support in the NHA campaign are the Easter Seal Society for Crippled Children and Adults, the Society for the Prevention of Blindness, United Cerebral Palsy Associations, the American Cancer Society, the American Heart Association, Arthritis Foundation, National Association for Mental Health, Muscular Dystrophy Associations of America, National Association (See FUND DRIVE page 2)



PROJECT HOPE—A nurse escorts a young Ceylonese patient to the gangway of the S. S. Hope. The boy had polio as an infant, and it was only after surgery and bracing received aboard the hospital ship that he was able to walk for the first time.



On March 2, officials of the Pattern Makers League of North America and the Manned Spacecraft Center signed a labor management relations agreement negotiated by both parties in accordance with Executive Order 11491. The League has exclusive rights to represent employees of the Model and Plastics Branch, Technical Services Division. The agreement covers certain personnel policies and practices and matters affecting working conditions of employees in the Model and Plastics Branch. Officials signing the agreement are (l. to r.), Carl P. Maxey, David L. McCraw, Jack R. Lister, MSC Deputy Director Christopher C. Kraft, Eldon O. Pruett, Douglas G. Brown, and Bruce W. Sprague.



FEDERAL WOMAN'S AWARD—Rita M. Rapp of the Preventive Medicine Division was recently chosen as one of six recipients of the highest award offered to women in Federal Government. She is the first woman from the Manned Spacecraft Center to be selected for this top honor. Miss Rapp and the other five honorees received the Federal Woman's Award for 1971 at a banquet in Washington, D.C. on February 25. She is pictured here with NASA's Acting Administrator Dr. George Low who attended the banquet with Miss Rapp. Also in Washington for the event were Dr. Charles Berry, Director of Medical Research and Operations, and Dr. W. W. Kemmerer, Jr., head of the Preventive Medicine Division.

Fund Drive Appeal Is Made

(Continued from page 1)
for Retarded Children, National Cystic Fibrosis Research Foundation, National Foundation-March of Dimes, National Kidney Foundation, and the National Multiple Sclerosis Society.

The NHA supports vital medical research into the cause, prevention, and cure of disease and disabilities. In conjunction with research, the NHA promotes increased awareness of public health problems through the agencies' educational programs.

Another important tool of the National Health Agencies in fighting disease and suffering is community service. The agencies' service programs, available to all stricken with disease or disability, include testing and disease detection for children, counseling, rehabilitation, and patient care.

CARE, one of the ISA agencies, provides three basic services through its thirty-four overseas missions. Food is given to satisfy basic and urgent needs; medical aid is offered by the staff and

volunteer doctors of MEDICO, a service of CARE; and self-help projects are initiated. Project HOPE, with "the world's most welcome ship," the hospital vessel S.S. Hope; the American-Korean Foundation, and the Planned Parenthood-World Population organization have contributed immeasurably to the better health and education of the people of the world.

There is still much work to be done in bettering national and international health standards.

There are still too many hungry, malnourished children, still too many people suffering from disease-caused blindness, still too many people afflicted with arthritis, heart disease, and cancer, still too many undiscovered cures for these diseases and others.

Please give generously to the NHA/ISA campaign. The quality of your life and the lives of others can only be improved through the continued efforts of all of these health agencies.



FINANCIAL MEETING—MSC hosted NASA's sixth annual Financial Management Conference in late February. Pictured here are (l. to r.) George A. Van Staden, Director of Administration at Kennedy Space Center; Lt. Gen. Frank A. Bogart, Associate Director of MSC; William E. Lilly, Assistant Administrator for Administration, NASA Headquarters; and H. Frank Hann, Director of Financial Management Division, NASA Headquarters. Russell C. Connelly, Jr. of MSC was responsible for all conference arrangements.

Roundup Swap-Shop

(Deadline for Swap-Shop classified ads is Thursday of the week preceding Roundup publication date. Ads are limited to MSC 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

Three Shetland ponies, stud, mare, gelding, \$60 ea, or \$150 for all. Two saddles \$25 ea., homemade cart \$100. Moser, 877-3048.
Four Goodyear Marathon tires, 78x14", \$20 ea., Ezell, 938-7520 after 7 pm.
B&W TV set, 17.5 diam., Playpen, Portable crib, High Chair, Cot. Staubert, 481-1940.
Wixon fairing and windshield, black, for Honda '750', like new, \$55. Joerns, 591-3330.
3-piece black sectional, good cdt, \$100. Blonde matching tables, lamp table, end tables (2), round coffee table \$12.50 ea or 4 for \$40. Mechelay, 534-3994.
GE refrigerator-freezer, avocado, self defrosting, wood handle inserts, \$245. Loup, 479-1970.
Lawn mower, 22" cut, used one summer, 3.5 HP, Briggs and Stratton engine, throttle on handle, \$30. Loup, 479-1970.
Heavy Northeastern pine coffee table, xln cdt, dark wood, beautiful grain, 15" high, 54" long, was \$84, sell for \$35. Four ladder-back kitchen chairs, straw bottom, sell 4 for \$20. Hogg, 481-3656.
Handcarved oriental teakwood screen \$395; Oriental-soapstone inlay desk \$395; handcarved oriental teakwood chest \$195. All items are work of art. Call 649-2569.
18th century complete dining room suite including extra leaves for table, 6 chairs and china cabinet, \$350. Antique wall clock, perfect \$95. Call 649-2569.

Clarinet Bb Selmar soloist professional caliber instrument. Used 2 years by high school band student, xln cdt, original cost \$285, sale price is \$200. Rubenstein, 877-3288.
1970 Boat outfit in good condition, 17 ft trihull, 120 HP outboard, accessories and trailer, ready to operate. All for \$2295. Bland, 591-4580.
Bicycle 24" Spider w/front wheel hand brake, xln cdt \$25. Long, 534-2028 after 5 pm.
Child's picnic table w/seat \$5. Like new Spaulding football helmet \$3. Doll carriage \$3. Golf bag \$1. Vincze, HU8-1040.
Trailer hitch, Class I, fits 1969-1970 Chevrolet SW, 1970 Buick SW, or 1965-1968 Ford or Mercury passenger car. Howard, 482-7082.
17" Zenith B/W portable TV, UHF/VHF, xln cdt, \$75. Presley, 591-3635.
Golf clubs, Spaulding Top Flite "registered" irons No. 2-No. 9, \$60. Wrinkle, 932-5038.
Traditional dining room table and four chairs, xln cdt. Stokes, 479-4863.
Snipe sailboat and trailer \$900, 17-ft Ouachita Sq. stern canoe \$150, 3HP Johnson outboard \$100, 10-ft Wards flatbottom boat \$40, all in xln cdt, 90 HP Graymarine engine/trans for parts \$25. Holzapfel, 427-1657.
Monaural phono-system; EICO 12-watt amplifier, 8-in enclosed speaker, Westinghouse automatic record changer \$20. Seyl, 591-2366.
Antique school desk, xln cdt, both front and back sections \$25. Corbett, 534-3770 after 5 pm.
Magnavox portable stereo phono (the large black vinyl type), xln cdt, cost new approx. \$180, asking only \$110. Fulbright, 944-8717.
Stereo amplifier, solid state, 35 watt, \$40. Schmitt, 534-5207.
Camper, converted 1 1/2 ton Metro van, rusted, mechanically good, ideal hunting/fishing, butane and water systems \$300. Call, 471-5161.
17' Invader tri-hull, 1000SS Mercury 100 HP, plus Dilly trailer, \$2150. Fox, 591-4460.
Rent a Cessna 205, 6 seats, IFR equipped, 155 MPH cruise, \$23 per hr. wet. Call 644-2441.

Contemporary dining table, w/four chairs, xln cdt, 6-ft long w/leaf, \$75. Grissom, 932-4206.
6-ft aluminum Christmas tree, blue ornaments w/flood light, xln cdt, used twice, \$20. Avent, 877-1162.
Circa 1890 "coin deposit bank", cast iron, nickel plated, front door w/combination lock, \$35. Sturtevant, 591-3905.
Smith-Corona Classic standard typewriter, portable, like new, \$75. Salter, 946-9149.
Aux. fiberglass sailboat, South Coast 25 raised deck sloop dacron sails, RDF, compass Danforth anchor .depth sounder, \$5200. Darrah, HU2-7424.
EICO 460 wideband oscilloscope in new condition w/high impedance probe. Whittle, 932-5239.
TR-3 engine and other miscellaneous Triumph parts. Johnson, 485-3886.

REAL ESTATE AND RENTALS

Dear Park, 3-2-2 brick, large fenced back yard, central air/heat, carpeting, \$1900 equity, 183/mo. Loup, 479-1970.
Clear Lake City, golf course lot 3-2-2, living, dining, family and study, screened patio, fenced w/trees, assume 6% loan. Vincze, HU8-1040.
Waterfront apt in Nassau Bay to sublet for summer starting June 1, fully furnished, one bedroom, 175/mo. Kuznetz, 591-3483.
CLC, 3-2-2, large family room, parlor and formal dining room, equity, assume \$188 monthly loan. Raroha, 488-4250.
Clear Lake City, 2-1-2 brick, fireplace, assume 5 1/4% loan plus equity. Newton, 488-3512 after 5 pm.
Clear Lake City, 3-2-2, corner lot, fenced, all extras, \$215/mo., \$3950 equity. White, 488-3944.
Alameda Mall-Kirkwood, Beverly Hills, for lease new large 3-2-2 Spanish brick, courtyard, carpeted, central air-heat, fenced yard with patio, walk to 3 schools, churches, shopping, \$230/mo. Johnston, 11214 Caribbean, 944-0862 or 944-5212.
3-bedroom, 1 1/2 baths, 2-car garage, central heat, air, carpet, drapes, equity, assume 5 1/4% interest loan, payment \$114/mo or refinance \$17,000. Call 941-5324.
Clear Lake City, 2-1-2, brick, Olde English w/b fireplace, roman bath, landscaped, fenced yard, all elec. kitchen, convenient to rec. center, shopping, 6 1/4%, \$164/mo. Burton, 488-3751.

PETS

Afghan hound puppies, red and gold brindle, 6 wks old, Champion dam. Tanner, 482-1328.
Saluki (Persian gazelle hound) puppy, female, 6 mo old, chocolate grizzle. Champion sire and dam. Tanner, 482-1328.

VEHICLES

46 GMC pickup, 54 engine, original transmission and rear end, good tires, want \$350, will talk. Stewart, 932-2392.
69 Yamaha 125 cc Enduro extra gears, head, piston, expansion chamber, electric start, other goodies, \$325. Stewart, 932-2392.
Mini bike, Sears, 2 1/2HP less than 1 yr old, good shape, \$95. Stewart, 932-2392.
69 Pontiac Firebird, 350, power, air, blue w/white vinyl top, disc brakes, 19000 miles. Wolfer, 591-3524.
70 Toyota Corona, 4 dr, air, radio, 4-sp, manual, still under warranty, \$1600. Elliott, 591-4035.
68 Chevrolet Malibu, V-8, low mileage, 2 dr

hardtop, fully loaded, will sell at \$300 below list price. Must sell. Keyes, 483-4667.
Honda street bike CB 160, xln cdt, recent tune-up, \$225 firm. Allgeier, 591-4627.
Hunting buggy, modified '57 VW dune buggy, running lights, tow bar, gun rack, mud tires, ideal for deer and duck hunting in marshes, \$325. Moser, 877-3048.
65 Chevrolet Impala, 2 dr HT, pwr steering, auto, air, radio, new tires, \$800. Smotherman, 482-1702.
69 Fiberfab Avenger, metallflake burgandy, 140 HP, Corvair, 3600 miles, S-W gauges, custom interior, indys, mags, etc, \$2500. Flanagan, 932-3155.
69 VW, dark green, 19,000 mi., xln cdt, buying new car. Lang, 591-3907.
67 Mustang, air, auto, radio, new tires. Also
67 Firebird, air, radio, 3-speed. Lilly, 877-1198.
67 Cadillac Sedan Deville, 38,000, all extras, \$2195. Oczkowski, 926-8994.
65 Pontiac GTO, gray w/black interior, auto, air, radio, recent brake and valve jobs, new muffler, good tires, xln cdt, \$850. Pawlowski, 591-2095.
66 Chevrolet Caprice, med blue, 3.9% engine, hydramatic, stereo, pwr windows, seat, xln cdt, Pratt, 932-2600.
70 Mercury XR-7 Cougar, light blue, blue vinyl roof, blue leather interior, factory A/C, A/T, P/S, pwr disc brakes, console, 5600 miles Pratt, 932-2600.
69 Chevelle Malibu, 4-speed, real clean, \$1,750. Phillip, 643-3870.
69 Opel Station Wagon, luggage rack, radio, heater, 102 HP engine, good tires, low mileage, xln cdt. Wilkinson, 422-9140 after 5 pm

LOST AND FOUND

Lost: Gold nugget tie tack. Moser, 877-3048.

WANTED

Multispeed racing bike. Almquist, 591-2709.
Isotta (bubble car) in restorable condition. Radnofsky, 877-2967.
To buy used model railroad equipment (Lionel-027 gauge). Guthrie, 946-7848.
Two wheel box-bed trailer. Allgeier, 591-4627
To trade Holiday auto air conditioner, used only 3 months, xln cdt. for good 115V window air conditioner 6000BTU or greater. Xenakis, 944-5284.
Used Encyclopedia Britannica or Americana. Smith, 591-4761.
Ride daily to and from NASA, working hours 8:30 to 5:00. Resident, NASA Blvd., Webster, Suzy, 932-6485 or 483-4241.
To return biege blanket loaned to accident victim across from Harris County Boys' Home, Dec. 23. Jezewski, 488-5342.

Jimmy Warren Memorial League BOWLING STANDINGS

| | | |
|--------------|--------|--------|
| Achievers | 62 | 40 |
| Pin Pounders | 62 | 40 |
| Bit Pickers | 57 | 47 |
| Alley Oops | 55 | 49 |
| Fabricators | 54 1/2 | 49 1/2 |
| Hexes | 54 | 50 |
| Real Timers | 53 | 51 |
| Chokers | 50 1/2 | 53 1/2 |
| Roadrunners | 49 | 55 |
| Mixers | 45 | 59 |
| Strikers | 43 | 61 |
| Blitzers | 39 | 67 |

Substitutes are needed! Contact Charlie Skillman, 488-3530, x2171.

Houston Chapter Officers are Roy C. Aldridge, President; Jack R. Lister, Vice-president; and Frank P. Parker, Secretary - Treasurer. They are available during this enrollment period to provide assistance if required.

The NEBA Houston Chapter office is in Building 45, Room 541, and the chief accounts clerk is Mrs. Millie Bloch, who can be reached at extension 5410.

FLASH—The EAA needs 25 more players to form a women's volleyball league. MSC employees and contractors and their dependents are eligible. Call Jeri Brown, x5046, by March 19.

NEBA Life Insurance Drive in

Process through month of March

During the month of March the Houston Chapter of the NASA Employees Benefit Association (NEBA) will be conducting their annual enrollment drive for the NASA Group Life Insurance Plan.

An important feature now offered by the plan is life insurance coverage for dependents. The NASA Dependents Life Insurance Plan offers wives (or husbands) of employees from \$2,500 to \$5,000 of coverage. Each child receives \$1,000 of coverage.

At present, approximately 51

Zero In On Safety

percent or 2,131 of the eligible MSC employees are enrolled in the life insurance program, and of this total, 1,261 carry dependents coverage. NEBA, through investments of insurance reserves, is currently subsidizing 30 cents on each \$1,000 of employee life insurance premium and 15 cents on each dependent's premium.

Representatives of the Home Life Insurance Company, underwriters of the NASA plan, will be available to answer questions and provide enrollment assistance between the hours of 11:00 a.m. and 2:00 p.m. in Cafeteria No. 1, Building 3, on Tuesday, March 16, and between 10:30 a.m. and 1:00 p.m. in Cafeteria No. 2, Building 11, on Wednesday, March 17.

EAA Announcements & News Notes

NASA NIGHT AT THE THEATER

The EAA has announced a special night at the Holiday Dinner Theater on Wednesday, March 31. The tickets cost \$5.00 per person and include dinner, setups, and a performance of the comedy "What Did We Do Wrong?"

The doors will open at 6:30 p.m. A buffet dinner is served from 7 to 8:00 p.m., and the performance begins at 8:30. Reservations must be made by Monday, March 15.

TRIPS PLANNED

Two tours, one to Europe and one to the Bahamas, are available to MSC and contractor employees.

A Washington, D.C. travel agency, working with the NASA Headquarters Employees Club, is offering a round trip fare to London from Washington of \$175.00. The flight leaves Washington on May 26 and returns on June 16. An optional tour of eight countries would cost \$545.00, or both the fare and tour for \$720.00. The cost would not cover the travel between Houston and Washington. Spaces on the flight are still available.

A trip to Nassau begins May 31 and includes five days and four nights at the Emerald Beach Motel. The round trip cost from Huntsville, Alabama, is \$143.50. The fare is higher if the trip originates in Houston.

UNITED BUYING SERVICE

For those who wish to look at current United Buying Service Catalogs, the following people have the catalogs available in their offices:

Joe Schisser, Bldg. 419, Rm. 103, x2819

Bert Matthews, Bldg. 10, Rm. 218, x4713

Harlin Starnes, Bldg. 45, Rm. 608, x5931

Steve Grega, Bldg. 4, Rm. 222, x5348

Dave Bell, Bldg. 16, Rm. 239, x3286

Dennis Doherty, Bldg. 36, x4521

Phil Stallings, Bldg. 416, Rm. 114, x6267

EASTER EGG HUNT

MSC's annual Easter Egg Hunt has been scheduled for Saturday, April 3.

The popular event for children will begin at 12:00 noon and will be open to youngsters from 2 through 7 years of age.

Over 1800 brightly colored eggs will be hidden, and prizes will be offered for the lucky children who find the greatest number of eggs.

Tickets will be priced at \$.50 per child. EAA representatives will have tickets and additional information on the Easter event.

FINAL BASKETBALL STANDINGS

The 1970-71 MSC/Ellington Air Force Base basketball season recently came to a close. The MSC Association, led by Phil Shannahan, defeated the Ellington

Eagles in the finals of the annual post season basketball tournament, by a score of 82 to 49. The Blue Devils of MSC defeated the Lockheed Gold team 64 to 61 in the consolation game. The final standings are as follows:

"A" LEAGUE: Blue Devils, 9-1; Association, 7-3; Ellington AFB Eagles, 6-4; FCSD, 6-4; Nooners, 2-8; and FSD Wildcats, 0-10.

"B" LEAGUE: USCG, 10-0; Ellington Transportation, 9-2; Malfunctions, 8-3; Mets, 7-3; Brewers, 6-4; Rounders, 5-5; Fast-breaks, 4-6; Zips, 4-6; PPD Hustlers, 2-8; Dick's Dogs, 1-9; and JJ's, 0-10.

1971 EUROPE CHARTER FLIGHT CANCELLED

The Houston-to-London trip recently announced which was to leave Houston on August 20 and return on September 12 for a round trip fare of \$226.00, has regrettably been cancelled.

Publicity had been released prematurely, before final contract negotiation. The EAA regrets any inconvenience caused to any employee.

A representative of Tours & Travel has advised the EAA that any monies received as deposits for this trip will be refunded.

Goals and Objectives Are Defined

(Continued from page 1)

to bring to agreement the parties involved in moves is often agonizing; and to arrange finally the logistics of the actual move requires careful planning in order to disrupt as little as possible the work of the offices being relocated.

On the lighter side of many of

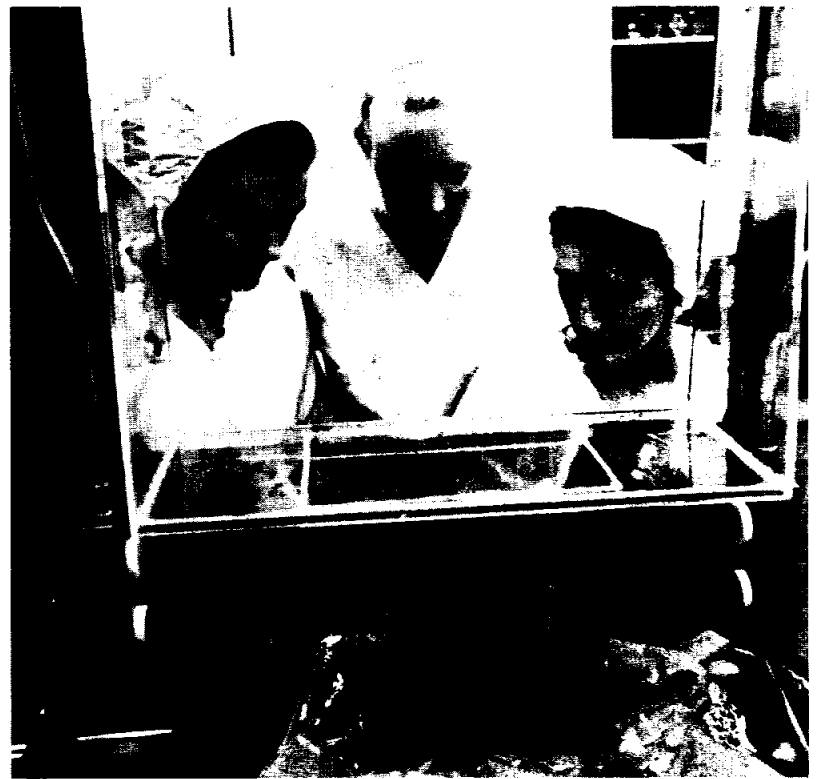
the responsibilities carried by the directorate in providing services to the Center is care and feeding of MSC's duck population, now numbering around 200. Even that is not without minor problems what with the ducks' seeming inability to differentiate between sidewalks and personal hygiene facilities.

NASA's new and varied programs will see the centers doing more in building models and in testing within their own facilities. The trend toward greater activity on site will place greater demands on the services offered by the Center Operations Directorate. Mr. Piland believes that his organization can meet all of the new and difficult challenges.

NASA aids light Aircraft builders

A three-volume report of literature related to the design of light aircraft was recently made available to general aviation manufacturers by NASA.

NASA aeronautical research, originally performed in support of commercial and military aircraft, can be of great use to general aviation since the speed of light aircraft has now reached the point where military and commercial planes have been operating for several decades.



BEAUTIES AND THE ROCK—(l. to r.) Linda Tyler, Nancy Trent, and Sandra Richards, Brown and Root/Northrop technicians, peer through glass at the much-discussed basketball size rock which the Apollo 14 crew brought back from Fra Mauro. The picture was taken in the Lunar Receiving Laboratory where investigative research continues on the lunar rock and soil samples.

Kraft to Attend Shuttle Conference

The AIAA Space Shuttle Development, Testing and Operations Conference and the NASA Space Shuttle Technology Conference are slated to begin on Monday, March 15 in Phoenix, Arizona. The meetings will continue through March 18.

Dr. Christopher C. Kraft, Deputy Director of MSC, will take part in a panel session on Monday on the subject of "Low Cost

Space Operations." He will focus specifically on the benefit of reusability and commonality to low cost flight operations.

Other MSC officials, including Donald K. Slayton, Director of Flight Crew Operations, will participate in sessions of the conferences.

S. T. Vetuski Dies

Sims T. Vetuski, formerly an employee in Flight Crew Systems Division, died on Friday, February 26 at the age of 67 while he was being rushed to the hospital from the Manned Spacecraft Center.

He was assigned to the Management Services Division at the time of his death. He had been employed at MSC since 1962.

He is survived by his wife, Carolyn; a son, Donald; and a daughter, Gayle.

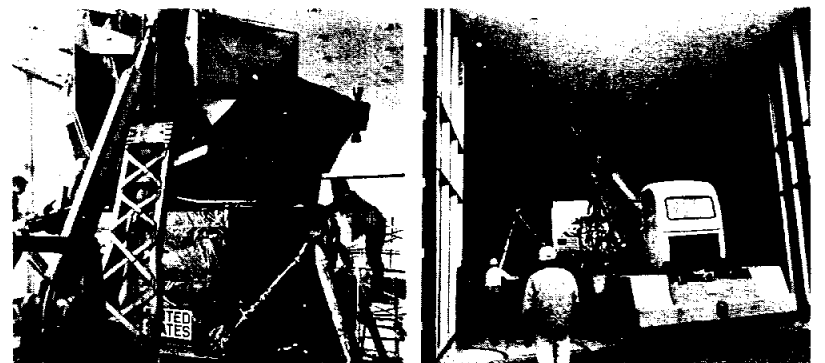
Holland Honored

John Holland, Jr., Chief of the Technical Laboratory Branch, Photographic Technology Division, has been awarded the degree of Master of Photography by the Professional Photographers of America (PPA).

Conferred in a special ceremony at the PPA Educational Conference in Las Vegas, the degree represents the highest level of professional attainment.



COST REDUCTION AWARD—Martin L. Raines (right) recently presented a \$50 check, the first award to be given in the MSC Cost Reduction Program, to (l. to r.), Harold R. Largent, Eugene F. Allen, William G. Barnes, Quintin T. Ussery, William C. Fulton, and Howard H. Neill, who shared the award. The efforts of these men in deleting instruments from the calibration category netted a savings to MSC of \$318,968. A \$50 award will be presented each month for the most outstanding cost reduction award submitted by MSC employees and approved by the Cost Reduction Committee.



OPEN, SESAME!—Lunar Module Test Article - 8 (LTA-8), used during simulations by James B. Irwin, Lunar Module Pilot for Apollo 15, was recently set up in the Building 1 display area. In the right hand picture, the descent stage is being moved through the enormous ground-to-ceiling doors of Building 1. To the left, the ascent stage is being placed atop the descent potter. The module weighs 10,000 pounds. It is covered with aluminized mylar, the "thermal blanket" used in modules that land on the Moon's surface.

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.

The Sky's The Limit . . . !

Everyone has heard of "those daring young men in their flying machines." At the Manned Spacecraft Center, there are not only a number of qualified aircraft pilots, but also a small group of "daring

thing very satisfying in "doing it myself."

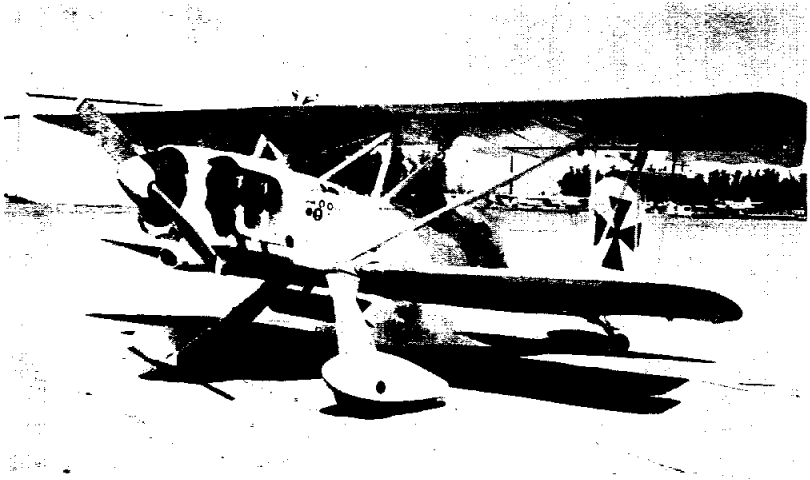
Bill Shaw, who began his flying career during World War II as a pilot of A-20 fighter bombers, has been working on his

tion work takes place in his garage, Jack mentioned some building and storage in his home's den which, he observed matter-of-factly, "saves buying furniture!"

Jack's wife Susan, the National Women's Parachute Champion and pilot in her own right, shares his enthusiasm for the airplane building project.

Jack traces his interest in piloting and aircraft to World War II and his experience as a fighter pilot in P-40's, "Spitfires," and "Hurricanes." He is also a parachutist and has built and raced his own cars and boats.

"Dutch" von Ehrenfried, who began his interest in flying as a member of the MSC Aero Club and as a crew member in the Earth Resources RB57-F, is six months into building a *Der Jager*, translated "The Hunter." He describes it as a "delightful combination" of the *Fokker D VII*, the



"DUTCH VON EHRENFRIED'S completed plane will look exactly like this *Der Jager*, built by Marshall White and the only one of its kind.

young men" who build the planes they fly.

Four of these adventurous and talented people were recently interviewed concerning their exciting projects.

What causes someone to build his own plane? Bill Shaw of the Earth Observations Program Office, Jack Joerns, Flight Crew Integration Division; Manfred ("Dutch") von Ehrenfried, Science Missions Support Division; and Jack Humphreys, Flight Crew Integration Division, gave basically the same reasons.

First of all, there is the element of challenge. Can I construct and fly my very own aircraft? Secondly, there is the consideration of finances. Most pilots fervently desire to own their own planes. However, the cost of a pre-constructed plane is high — almost prohibitive in many cases. To build one's own plane costs between \$2,000 and \$5,000, depending on the sophistication of the equipment, the number of modifications made to the original design, and the success one has at finding parts in airplane surplus stores associated with aircraft factories.

Finally, some pilots choose to build their own planes because there is a great degree of pride and confidence in operating something — in this case an aircraft — for which the individual is totally responsible, i.e., there's some-

Jungster I, a scaled-down by a U. S. engineer of the German *Jungmeister*, for two years. The single-place biplane is being constructed of wood—principally spruce and plywood—with metal fittings of 4130 chromoloy steel. He is building the plane in his garage.

One benefit to working with wood is that only basic tools are needed, such as hammers and saws, the types of tools found in most homes.

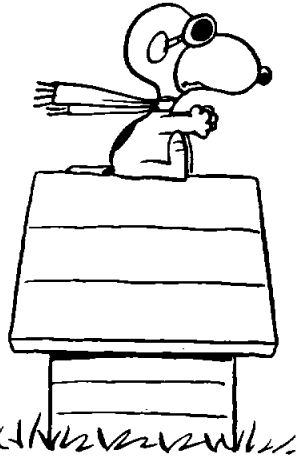
Bill estimates that he will finish the Jungster I by 1972. He indicated that 2,000 to 3,000 hours of his time will have gone into the plane by the time of its completion.

The aerobatic craft will have a sixteen-foot wing span, with 80 square feet of wing area. The total weight, with pilot, will be 800 pounds.

Jack Joerns, who is president of Houston Chapter 12 of the Experimental Aircraft Association, has been working on his plane for three years. The design is his own. The craft will be a single-place biplane with open cockpit. It is designed to be aerobatic.

Jack's plane, which he hopes to finish within the next year, has metal fuselage and wing ribs. The 20-foot wings will be covered with cloth, a linen or dacron fabric. The gross weight of the completed craft will be about 1,000 pounds.

Although most of the construc-



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Albatros (a triplane), and a *Stosser*, two of which were flown and made famous by the German ace of World War I, Baron Manfred von Richthofen, "the Red Baron."

The plans for this biplane are new, drawn up in late 1969 by Marshall White, an American engineer, designer and aircraft builder. The wing shape is almost identical to the *Albatros D-5a*, the tail assembly to the *Fokker D VII*, and the gear shape to the *Focke-Wulf Stosser*. In Dutch's own words, the new design "marries the schmaltz of the original aircraft to desirable flying features, such as balanced controls and more stable landing gear."

Dutch anticipates painting the completed craft "Red Baron red," covering it with Maltese crosses and other trappings of World War I days, including dual *Spandaus* machine guns, and equipping it with a gang of six cameras to capture some memorable earth scenes.

Jack Humphreys is the only one of the four builders to have completed his plane. He spent over 2,000 hours over a two-year period working on his "Pitts Special," also a one-place biplane.

He first flew the plane in September 1968 and felt such great confidence in the craft that he entered the National Aerobatic Competition in Fort Worth in October



JACK JOERNS measures a portion of the tail section of his biplane. On the wall behind him are the wing ribs of the aircraft.

1970. He placed seventh out of nineteen entrants, highly respectable for a first attempt.

Jack has continued to make improvements to the plane. Recently he replaced the original 125-horsepower engine with a more powerful 180-horsepower Lycoming engine.

Jack developed his enthusiasm for flying with the Longhorn Flying Club at the University of Texas. His plane is made of wood and metal, the fuselage of metal tubing and the wings of wood covered with dacron fabric. Its color is a vivid "international orange."

Not content to rest with the completion of one plane, Jack is already anticipating starting on another Pitts model, this one with a larger cockpit.

The Federal Aviation Administration (FAA) inspects the aircraft on a regular basis as they are being built. The planes are licensed by the FAA as experimental aircraft, and their airworthiness is determined by the FAA before they are flown. Usually, an FAA examiner is on hand for the first flight, the ultimate hour of satisfaction after so many hours of dedication and hard work.



BILL SHAW leans on the fuselage of his aircraft. The wooden frame in front of his elbow is the seat back. The curved metal behind him is the vertical stab, part of the tail assembly.

Apollo 16 Crews

(Continued from page 1)

crewmen are, respectively, Fred W. Haise, Jr., Stuart A. Roosa, and Edgar D. Mitchell.

The lunar landing site for Apollo 16 has not yet been chosen; however, it will not be in a mare area.

The mission will last approximately 12 days, including a stay on the lunar surface of about 67 hours. Young and Duke, using a Lunar Roving Vehicle (LRV) will have three periods of extravehicular activity on the lunar

surface, totaling about 20 hours.

Young will be making his fourth space flight. Mattingly, replaced as command module pilot for Apollo 13 after exposure to German measles, and Duke will be making their first flights.

Fletcher Named

(Continued from page 1)

fornia at Los Angeles, and on the teaching staff at his alma mater, Cal Tech.

A native of New Jersey, Dr. Fletcher and his wife have three daughters and a son.



JACK HUMPHREYS is seen here in front of his "Pitts Special," which he finished building over two years ago. He is about ready to start on a new Pitts model.