

NEWS RELEASE LOG

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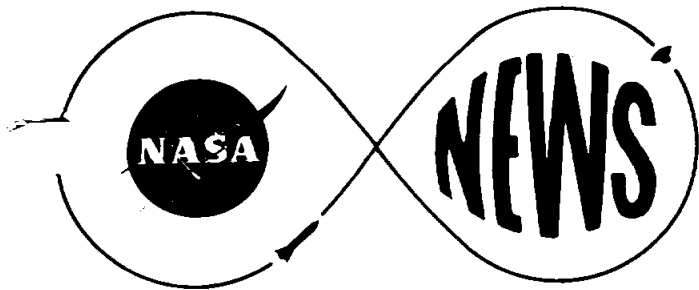
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75-29	Dr. Russell Martin is ASTP Experimenter	Upon Receipt
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NEWS RELEASE LOG

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75-76	Douglas K. Ward '''	"
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75-90	Shuttle Contract Amendment - RI	September 22, 1975
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**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:

January 6, 1975

RELEASE NO: 75-01

US-MEXICAN SCREWORM ERADICATION PROJECT TO TEST DATA SYSTEM

Mexican officials will arrive at NASA's Johnson Space Center, Houston, Texas, on January 7, 1975, for a two-day simulation of the Screwworm Eradication Data System (SEDS).

The simulation will involve technical and administrative personnel from the Space Center and the Mexican-American Screwworm Commission who will be using computer-generated data to plan airborne drop locations for sterile screwworm flies.

The major eradication program itself is scheduled to begin sometime in the fall of 1975 when SEDS and a sterile fly factory in South Central Mexico both become fully operational.

For many years prior to the mid-60s the screwworm was a livestock pest of incredible economic consequences in the American South and Southwest. The pest lays its eggs in the open wounds of animals or navels of newborn livestock where the larvae stage bores into the animal's flesh -- generally killing or irreparably maiming the animals. A barrier was established along the American/Mexican border in 1965 by continuously dropping sterile male flies along a zone 300-miles deep and about 1,500 miles long. To maintain this barrier costs the US Department of Agriculture about \$12.5 million a year.

However, livestock losses to the screwworm pest have ranged in the hundreds of million dollars.

The USDA and the Mexican Department of Agriculture, by agreeing to establish a new screwworm barrier only 105 miles long just south of the state of Vera Cruz in Mexico, can reduce to about \$1.8 million the yearly cost of controlling the pest.

The program will also save the Mexican livestock growers several million in animal losses when the new barrier is established since most of the Mexican livestock growing area will then be north of the barrier, on the pest-free side.

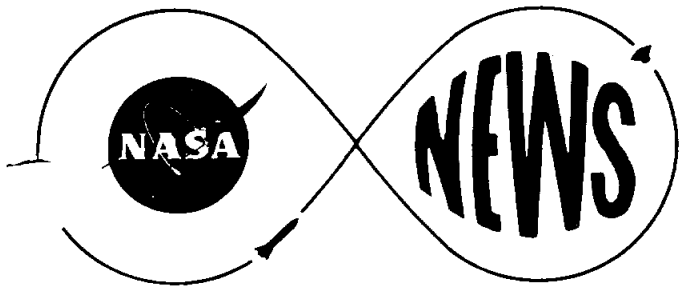
The USDA is providing the know-how for a new sterile-fly factory which will be located in Mexico near the proposed barrier. A factory presently is operated by the USDA in Mission, Texas. Nuclear irradiation of screwworm pupae is used and is known as the sterile fly technique. After being irradiated the screwworm pupae are boxed in cardboard containers where the pupae emerge as adult sterile flies and are then air-dropped over infested zones.

The Mexican authorities are coordinating the efforts over their portion of the barrier and the joint Mexican-American Screwworm Commission will operate the new sterile fly factory and fly the drop planes when that factory becomes operative.

The NASA is providing information on drop points in Mexico and the United States based on environmental information obtained from National Oceanic and Atmospheric Administration weather satellites and then processed in the SEDS system at Houston.

Due to the nature of the life cycle of the pest, certain environmental conditions are not conducive for the fly. If areas right for the fly are known in advance of the airborne drops, it is believed that up to 25 percent of the sterile flies normally used can be saved for future drops, increasing the efficiency of the technique and reducing substantially the cost of eradication. NOAA weather satellites are essential to the eradication program because Mexico's large number of individual weather stations are not linked by a communication system similar to NOAA's here in the U.S. Because of this, information from weather satellites is being processed by NASA and will be used to provide coordinates for the screwworm fly drop locations in Mexico.

The satellite data coordinating system will also be used, beginning in March, to reduce the cost of maintaining the present barrier along the U.S.-Mexico border until the new barrier becomes effective.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Milton Reim
713/483-5111

FOR RELEASE:
January 17, 1975

RELEASE NO: 75-02

FINAL ASTP WORKING GROUP MEETINGS IN UNITED STATES SET TO BEGIN

The last major meeting of Apollo-Soyuz Test Project working groups in the United States prior to the mission in July is scheduled to get underway here at the Johnson Space Center early next week.

Five working groups involving approximately 80 Soviet aerospace specialists including Academician Boris N. Petrov and the USSR project technical director, Professor Konstantin D. Bushuyev will begin arriving in the United States this weekend to meet with their U.S. counterparts.

Petrov and Bushuyev are not scheduled to arrive at JSC until January 27.

The first of the Soviet specialists to arrive is the Working Group #3, for docking systems. They arrived in the U.S. yesterday and went directly to the Rockwell manufacturing plant in Downey, California for joint tests of the docking system alignment pin and socket. After these tests they will come to JSC to review the results of those tests and tests performed earlier in Moscow on the flight docking systems.

January 20, a portion of Working Group #1 for experiments, trajectories, simulations and contingency plans will arrive at JSC along with Working Group #4 for communication systems. Working Group #1 will be preparing for the joint simulations now scheduled for the last week in March.

Working Group #4 will be reviewing results of independent tests of the flight communication systems that have been conducted by the U.S. and in the USSR. The group is then scheduled to go to Kennedy Space Center, Florida the first week in February to perform electromagnetic compatibility tests with



the Soviet television camera in the Apollo spacecraft.

Accompanying the working group for this test at KSC will be the U.S. Technical director, Dr. Glynn S. Lunney and Professor Bushuyev.

The remainder of the Soviet aerospace specialists will arrive at JSC on January 27 and will include a sub-group of Working Group #1 for onboard documents. This sub-group will remain at JSC through the crew training period scheduled to get underway on February 11. Eight cosmonaut crewmen for ASTP are scheduled to arrive in the U.S. for three weeks of training at JSC. The cosmonauts will also make side trips to KSC and the Marshall Space Flight Center in Huntsville, Alabama.

Working Group #2 for control systems and docking targets will primarily be working on contingency control modes for the mission in July.

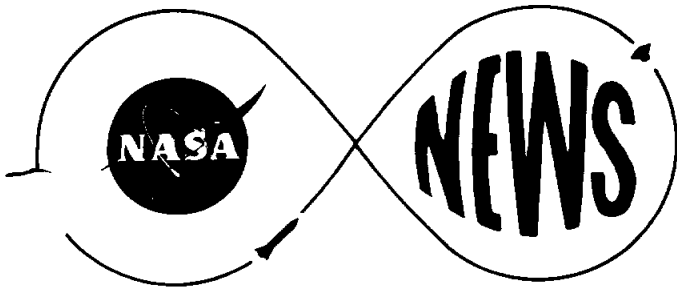
The life support systems Working Group #5 during their stay at JSC, will be preparing the final report on the compatibility of the Apollo-Soyuz life support systems. They will also certify the equipment that is to be transferred between the two spacecraft while docked in space.

Most of the Soviet working group teams will depart JSC for the Soviet Union on February 8.

The next major meeting of the working groups will be held in Moscow in mid-May in conjunction with the joint flight readiness review.

The only Soviet aerospace specialists scheduled to come to the U.S. after this series of meetings will be those participating in simulations and during the flight in July.

The joint manned earth-orbital mission is now scheduled to begin on July 15. The Soyuz will be launched first from the Soviet Union and approximately seven and one-half hours later the Apollo spacecraft will be launched from the Kennedy Space Center in Florida. The two vehicles will rendezvous and dock in space to perform a series of joint exercises and experiments. This will include transfer of crewmen from one spacecraft to the other and back.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:

January 22, 1975

RELEASE NO: 75-03

JOHNSON SPACE CENTER TO HOST EARTH RESOURCES SYMPOSIUM

The Lyndon B. Johnson Space Center, Houston, Texas, will sponsor a major Earth Resources Symposium during the week of June 8 through 13, 1975. The symposium's primary focus will be on the practical applications of earth resources survey data gathered by both satellites and aircraft. Such data are being utilized and evaluated in a variety of applications, such as regional planning, environmental impact assessment, energy and mineral resource location, water resources management and agriculture.

Invitations are being extended to individuals in federal, state and local government, private industry, universities and to the international scientific community. The symposium is intended to bring together those who have developed the technology for remote sensing of the Earth's resources and those who are using this information or could use it. Over 1,500 persons are expected to attend the five-day event, which will take place at the Houston Shamrock Hilton Hotel.

The symposium will include papers on the results of experiments with remote sensing data obtained from LANDSAT 1 - formerly the Earth Resources Technology Satellite (ERTS-1), the Earth Resources Experiment Package (EREP) which was carried aboard the Skylab manned orbiting space laboratory, and various low and high altitude Earth resources survey aircraft programs. Papers addressing the need for new data systems as well as those describing utilization of existing data will be invited.

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NASA's Space Applications Program has had a significant Earth Resources Survey activity underway for the past several years. The goal of the program has been to use remote sensing data from space and aircraft to measure and assess the Earth's physical environment, including its agriculture, mineral and water resources.

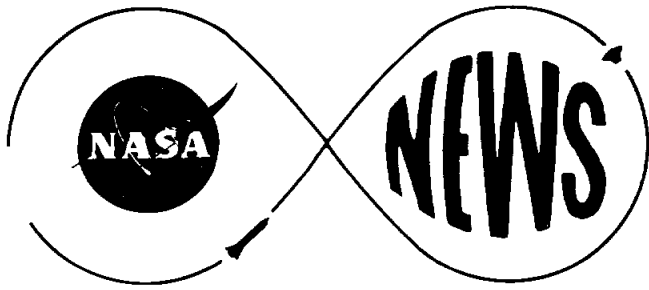
A primary tool in this effort has been LANDSAT-1, launched in July 1972. From an altitude of 920 kilometers (570 miles) the satellite views each local area on Earth every 18 days. High quality imagery from a multi-spectral scanner has revealed many previously unknown features of the Earth's geological structure, possible mineral deposits, pollution sources, urban growth patterns etc. As a result LANDSAT data is being evaluated by agencies in preparing environmental impact statements, assessing and developing controls over land use patterns, forecasting crop yield, locating potential new energy sources, monitoring strip mine operations and pollution sources, and in many other ways.

Skylab, with its EREP sensors, was operated for 171 days in 1973-74. The nine crewmen collected 40,000 images and 238,000 feet of magnetic tape data from an altitude of 430 kilometers (270 miles). This data has better resolution than that of LANDSAT although it is more limited in volume, time span, and repetitive coverage.

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Note to Editors, Directors

Additional information for potential participants can be obtained through the Earth Resources Program Office, Code HB, Lyndon B. Johnson Space Center, Houston, Texas, 77058, (713) 483-4691. Additional news media information can be obtained from Code AP3, Lyndon B. Johnson Space Center, Houston, Texas, 77058, (713) 483-5111.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Jan Wrather
713/483-5111

FOR RELEASE:

January 27, 1975

RELEASE NO: 75-04

JSC APPOINTS NEW FEDERAL WOMEN'S PROGRAM COORDINATOR

Mary Kerr, formerly a Deputy Procurement Officer at Ellington Air Force Base, has been appointed Coordinator of the Federal Women's Program (FWP) at the Johnson Space Center. In this capacity, she will act as the contact point, source of information and advisor on matters concerning the employment and status of women at the Center.

Ms. Kerr says that hers will be an open-door policy and that she will do everything within reason to assist JSC's female employees. She is located in the Equal Employment Opportunity Office.

A native of Kapaa Kauai, Hawaii, she began her government career in 1942 as a clerk-stenographer in the U.S. Navy. In 1951, she transferred to the U.S. Air Force as a Procurement typist. From 1955-60, she was Supervisory Purchasing Agent at Ellington AFB and in 1960 was appointed Procurement Officer, a position she held until taking her present assignment.

Ms. Kerr says she appreciates and understands the aspirations of women at the lower and middle grades, "I should," she remarked. "I've been there."

Through the years, she has been active in a number of activities and organizations to improve the status of women and other minority groups. While at Ellington, she served as the Federal Women's Program Coordinator, was a member of the Women's Council, the Minority Business Enterprise Committee, the Affirmative Action Plan Committee, and was organizational

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RELEASE NO: 75-04

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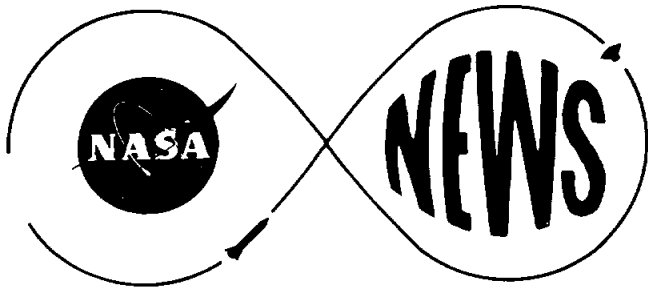
Coordinator of the Handicapped. Currently, she is Program Committee Chairperson of the Federally Employed Women, Greater Houston Chapter.

Some of the objectives of the FWP are to recruit and hire qualified women, to place women in jobs which offer them advancement in line with their abilities and ambitions, to counsel women about opportunities, to promote education and training which will enhance opportunity for advancement, and a number of other goals.

Ms. Kerr says her ultimate objective is to make JSC's Federal Women's Program as "effective as possible."

She lives in Pearland with her husband, William. They have two children, Charles and Mary.

-end-



Terry White
713/483-5111

**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

FOR RELEASE:

January 31, 1975

RELEASE NO: 75-05

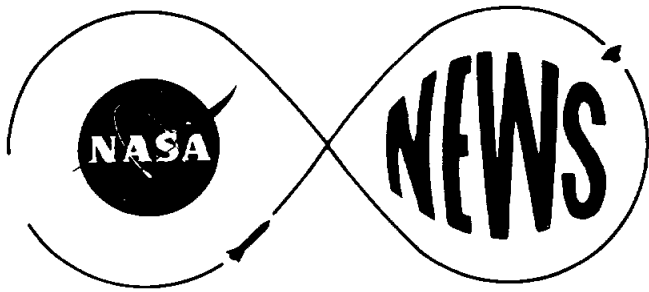
ASTP ENGINEERS VISIT CEDAR HILL FARM

Space scientists and engineers from the Soviet Union Academy of Sciences and from the NASA Johnson Space Center Saturday will visit the Cedar Hill Farm near Willis, Texas for a barbecue dinner and a look at cattle ranching. The engineers represent five working groups meeting at JSC for the final time in planning the Apollo-Soyuz Test Project mission in July.

Included in the group are ASTP Technical Director for the U.S. Glynn S. Lunney, ASTP commander Thomas P. Stafford, USSR technical director Professor Konstantin Bushuyev and Academician Boris N. Petrov.

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**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:

February 5, 1975

RELEASE NO: 75-06

SIXTH LUNAR SCIENCE CONFERENCE SCHEDULED

The Sixth Annual Lunar Science Conference will be held at the Lyndon B. Johnson Space Center, Houston, Texas, March 17 through 21, 1975. Over 500 lunar and planetary scientists and principal investigators are expected to attend the five-day event.

Opening ceremonies for this year's conference will be on Monday, at 8:30 a.m. in the Building 2 Main Auditorium at JSC. Morning and afternoon concurrent sessions are scheduled in the auditorium and at the Robert R. Gilruth Recreation Center, also on the JSC campus.

This year's symposium will direct itself to six main topics: Constraints on structure and composition of the deep interior; Characteristics and movement of materials in the lunar regolith; Characterization and evolution of the lunar crust; Nature of impact processes and their effects on lunar materials; Characterization and evolution of the mare basins; and the Moon as an interplanetary/interstellar probe.

On Friday, March 21, summary sessions will be held for each of the six topic areas. One scientist per topic will be responsible for following his area throughout the entire week and presenting an overview at Friday's session.

The program committee for this year's lunar conference consists of Dr. Larry Haskin, co-chairman and Chief, Planetary and Earth Sciences Division, JSC; and co-chairman Dr. Robert Pepin, Director Lunar Science

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RELEASE NO: 75-06

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Institute; Dr. Russell Merrill, LSI; Dr. Don Burnett, University of California at Los Angeles; Dr. James Head, Brown University; Dr. Marcus Langseth, Lamont Daherty Observatory, Columbia University; Dr. J. J. Papike, SUNY Stoneybrook; Dr. Nafi Toksoz, Massachusetts Institute of Technology; Dr. Jeff Warner, JSC; and Floyd Roberson from NASA Headquarters.

Last year's conference was dedicated to the late Dr. Paul W. Gast, one of the nation's leading experts in the field of lunar geochemistry and architect of the space agency's lunar program. Dr. Gast died in May, 1973.

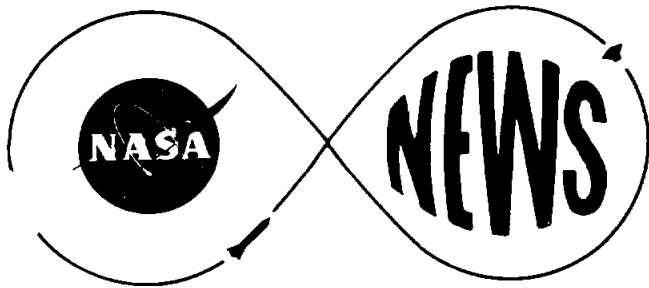
This is the fourth consecutive year that the conference has been held at the Johnson Space Center. The first two lunar conferences were held at the Albert Thomas Convention Center in downtown Houston. And, except for the first conference, attendance at the lunar science conferences has been consistently around 500. The first conference drew a crowd of about 1,500.

A large number of foreign scientists is also expected this year. Last year about 100 of the 500 attending were from outside the United States, some as far away as Australia, South Africa and Iran.

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NOTE TO EDITORS, DIRECTORS:

Registration information for journalists expecting to cover the conference can be obtained at (713) 483-5111. Abstracts will be provided to attending journalists when they arrive.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

RELEASE NO: 75-07

FOR RELEASE:

February 6, 1975
2:00 PM

COSMONAUTS IN U.S. FOR ASTP TRAINING

The eight Soviet Union cosmonauts in training for the joint Earth orbital mission with American astronauts next July are scheduled to arrive in the United States Friday.

The Soviet crewmen assigned to the Apollo-Soyuz flight will arrive in Washington the evening of February 7, and will fly on to the NASA Kennedy Space Center in Florida the following morning. On Monday evening, February 10, the cosmonauts will continue to Houston to begin the two-week training period with the U.S. crew at the NASA Johnson Space Center (JSC).

The crews also will visit Marshall Space Flight Center, Huntsville, Alabama, and the Michoud Assembly Facility in New Orleans, Louisiana, Friday, February 21.

The training program at JSC will include exercises in the Command and Docking Module simulators and mockups; joint language training; briefings on experiments, contingencies, and mission rules; and related activities.

The visit marks the final joint crew training exercise in this country before the July 15 flight. The U.S. crew will visit the Soviet Union in late April and early May to complete the joint crew training.

The visiting cosmonauts are prime crewmen Aleksey Arkipovich Leonov, commander and Valeriy Nikolayevich Kubasov, flight engineer; second crew

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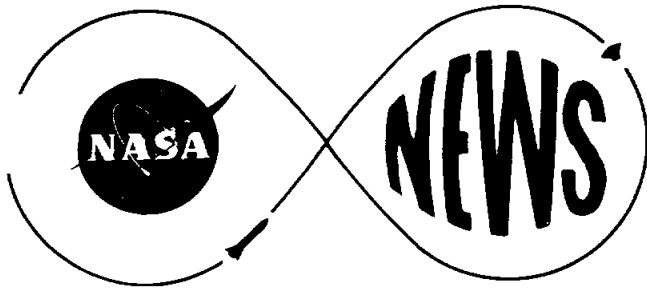


Anatoliy Vasil'yevich Filipchenko, commander and Nikolay Nikolayevich Rukavishnikov, flight engineer; third crew Vladimir Aleksandrovich Dzhaniyev, commander and Boris Dmitriyevich Andreyev, flight engineer; and fourth crew Yuriy Viktorovich Romanenko, commander and Aleksandr Sergeyeovich Ivanchenkov, flight engineer .

U. S. crewmen for the ASTP mission are: prime crewmen Thomas P. Stafford, commander, Vance DeVoe Brand, command module pilot, and Donald K. Slayton, docking module pilot; backup crewmen Alan L. Bean, commander, Ronald E. Evans, command module pilot, and Jack Robert Lousma, docking module pilot.

Arrival at the Kennedy Center is scheduled for noon Saturday. While there the cosmonauts will tour the center with visits to the Vehicle Assembly Building, the launch pad, launch control center and the Apollo spacecraft and docking module being prepared for the mission. A press conference is scheduled Monday morning.

At the close of the training at JSC a press conference with the joint crews is scheduled. The cosmonauts are scheduled to depart Houston in two groups on February 25 and 26.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:
February 14, 1975

RELEASE NO: 75-08

ISOLATION GARMENT

The lively four-year old girl thought it was a "fun-thing" to romp about in what appeared to be a miniature spacesuit recently at the NASA Johnson Space Center, but her romp had a serious purpose.

Engineers and physicians at the Center were using the healthy little girl to test a prototype of an isolation garment which may allow immunity-deficient children to leave their sterile habitats in homes and hospitals for a look at the outside world and for outdoor play that their illness had denied them. The garment would allow patients to carry a germ-free environment around with them for periods up to four hours. Designed and fabricated at JSC, the system is part of a cooperative program with the Baylor College of Medicine, where it will undergo clinical testing.

Using commercially-available components where possible, the engineering team used a design approach similar to the one used in developing astronauts' spacesuits. Filtered ventilation to the isolation garment is provided by battery-powered blowers on an accompanying pushcart through a 10-foot long umbilical.

Potential uses of the isolation garment are not limited to immunity-deficient children; patients with aplastic anemia or who are undergoing chemotherapy or organ transplant likewise could be freed from their sterile plastic room for short periods.

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RELEASE NO:

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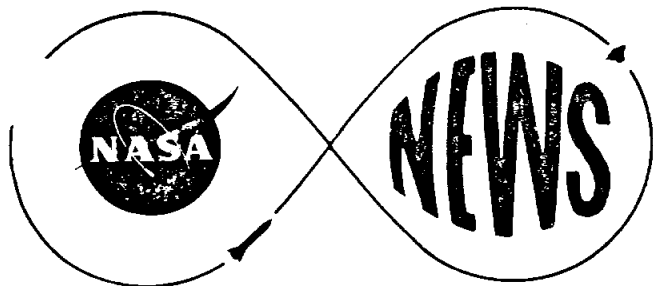
The garment is made from a rubberized fabric similar to that used in liferafts and is fitted with an integral helmet of soft, transparent plastic. A fold-up tunnel attached to the back of the suit permits the patient to move from his sterile room into the suit without exposure to the outside atmosphere.

A modified lawnmower chassis serves as a carrier for the air blowers and batteries and has a seat for the patient. Two fans force air through a high-efficiency filter pack through the 10-foot air supply hose and into the suit. Rechargeable 12-volt aircraft batteries provide power to the fans, or the system can be connected to 110-volt AC housepower or driven by an automobile battery through the cigaret lighter.

Airflow entering the suit passes inside the top of the helmet and over the body for cooling, and exits at the ankles.

Project engineer Fred Spross of the JSC Bioengineering Systems Division estimates that the suit and pushcart could be mass produced commercially. "The technology for the garment was already available from our space experience," said Spross. "We didn't have to go into a lot of new development work." Spross and his colleagues are hopeful that a manufacturer will take up the isolation garment project and market them for child and adult patients who want to see the outside world.

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**NATIONAL AERONAUTICS AND
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Johnson Space Center
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Terry White
713/483-5111

FOR RELEASE:
February 13, 1975

RELEASE NO: 75-09

SPECIAL TO: Wisconsin State Journal
115 South Carroll Street
Madison, Wisconsin 53701

COLONEL FROME RETIRES

Former Black Earth resident Col. William J. Frome retired from U.S. Air Force active duty February 1, at the NASA Johnson Space Center in Houston, Texas, where he has served as dental surgeon for the past nine years. He will remain at JSC as a civilian in the same capacity, responsible for astronaut dental care and spaceflight oral health research.

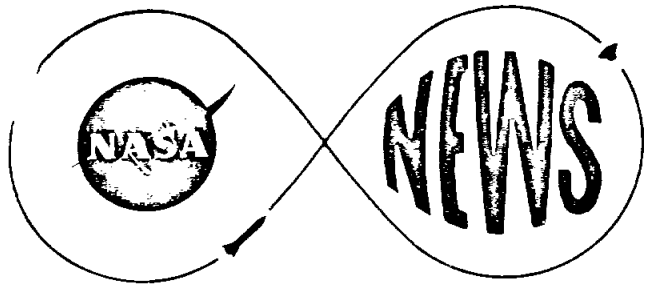
During his Air Force career, Colonel Frome served as a dental officer in Hawaii, Johnston Island, France, and at several Air Force bases in the U.S. before his assignment to JSC. He holds the Presidential Medal of Freedom, two Meritorious Service Medals and numerous other awards and decorations.

Colonel Frome is the son of former Black Earth residents Mr. and Mrs. Walter Frome, Sr., now living in Laguna Hills, California. Walter Frome is a former pharmacist and postmaster in Black Earth.

Colonel Frome is married to the former Juanita Howle of Chicago, Illinois. The couple has four children --- Diana, Deborah, Pamela and Billy.

- end -





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:

February 13, 1975

RELEASE NO: 75-09

SPECIAL TO: Cross Plains Arrow
1126 Mills Street
Black Earth, Wisconsin 53515

COLONEL FROME RETIRES

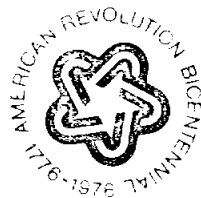
Former Black Earth resident Col. William J. Frome retired from U.S. Air Force active duty February 1, at the NASA Johnson Space Center in Houston, Texas where he has served as dental surgeon for the past nine years. He will remain at JSC as a civilian in the same capacity, responsible for astronaut dental care and spaceflight oral health research.

During his Air Force career, Colonel Frome served as a dental officer in Hawaii, Johnston Island, France, and at several Air Force bases in the U.S. before his assignment to JSC. He holds the Presidential Medal of Freedom, two Meritorious Service Medals and numerous other awards and decorations.

Colonel Frome is the son of former Black Earth residents Mr. and Mrs. Walter Frome, Sr., now living in Laguna Hills, California. Walter Frome is a former pharmacist and postmaster in Black Earth.

Colonel Frome is married to the former Juanita Howle of Chicago, Illinois. The couple has four children --- Diana, Deborah, Pamela and Billy.

- end -

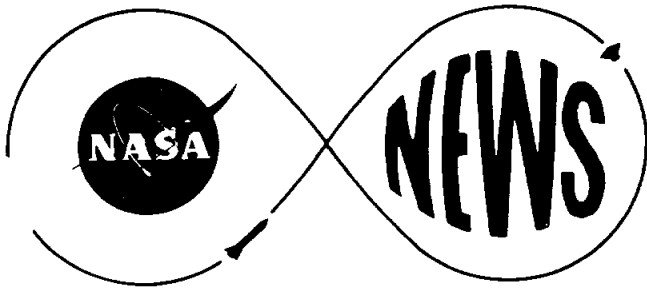


- 2 -

Soviet specialists visited Kennedy Space Center, Florida, USA, where they became acquainted with Apollo flight preparations and participated in tests on systems compatibility. American specialists will visit the USSR launch site in May 1975 with the same purpose.

A work schedule for the time remaining before the mission was developed in detail. The next conference between technical directors for Soyuz and Apollo flight readiness review will take place in Moscow in May 1975.

- end -



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:
February 20, 1975

RELEASE NO: 75-10

PAN AM CONTRACT EXTENDED AT JSC

The NASA Johnson Space Center has awarded a one-year contract extension to Pan American World Airways' Aerospace Services Division, Cocoa Beach, Florida for plant maintenance and operations support services at the Houston center.

The initial cost-plus-fixed-fee/award contract was awarded February 13, 1974 for a one-year period, and the new extension runs through February 12, 1976 for an estimated annual contract value of \$6.7 million. Pan Am employs about 320 people in the operation of all JSC utility systems and facility maintenance, buildings, roads, ditches and special equipment.

-end-



JOINT COMMUNIQUE

Conference of Representatives of Academy of Sciences and NASA

January/February 1975

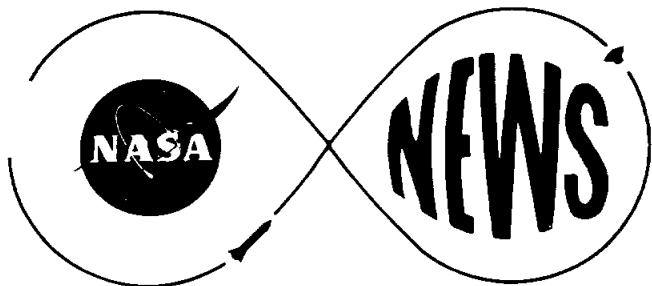
From January 27 to February 13, 1975, a joint conference of project technical directors and all working groups took place at Johnson Space Center, Houston, Texas. The purpose of the conference was to discuss various technical matters concerning the Apollo-Soyuz mission and to publish necessary documentation. Project directors reviewed the progress of the work and specified work by both sides is proceeding in accordance with the schedule. Both sides stated that discussions and agreement on technical questions related to development of new systems, spacecraft equipment and design improvement, mission ground support equipment, as well as the publication of technical documentation were completed.

Positive results on the occasion of the joint simulation between mission control centers in December 1974, indicated that communication lines between centers fully guarantee the flow of information necessary for conducting a joint mission in July 1975.

Both docking systems were carefully checked and are ready for flight. Each side will conduct a final checkout at their respective launch site.

Joint crew training is proceeding satisfactorily. Cosmonauts visited the U.S. launch site. Apollo crews will visit the USSR launch site in April 1975.

The Soviet project director informed the American side that the spacecraft Soyuz 16 has successfully completed a full test of basic flight phases planned for ASTP as well as the spacecraft systems' performance and their interaction with the USSR ground control systems. Joint tracking activity, conducted in the course of Soyuz 16 flight showed that the precision of tracking information satisfactorily fulfills the requirements established by the project.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:

February 26, 1975

RELEASE NO: 75-11

ASTP CREWS MEET JSC EMPLOYEES

Crewmen for July's United States-Soviet Union joint space flight Thursday will outline mission training progress to Johnson Space Center employees and thank them for their support. The 8:30 a.m. CDT meeting in the Center's Auditorium will be the final preflight public appearance in the United States by Soviet cosmonauts Aleksey A. Leonov and Valeriy N. Kubasov.

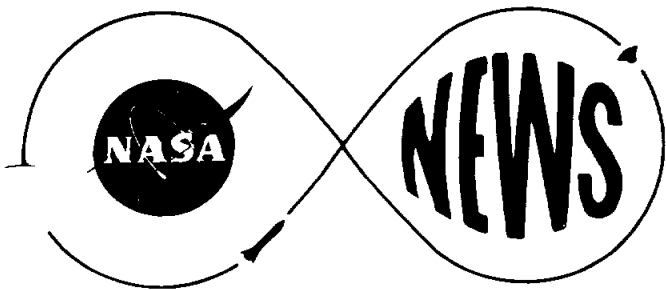
Apollo crewmen Thomas P. Stafford, Donald K. Slayton and Vance D. Brand will unveil their crew insignia at the meeting.

Leonov, Kubasov and the Soviet backup crews will leave Houston for Moscow in two groups Friday and Saturday.

The Apollo-Soyuz mission will be launched July 15 and will include two days of joint operations while the two spacecraft are docked in orbit using the universal docking system developed by the two countries.

-end-





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:

March 3, 1975

RELEASE NO: 75-12

SIXTH LUNAR SCIENCE CONFERENCE SET AT HOUSTON

For the sixth straight year, several hundred lunar and planetary scientists from the United States and abroad will converge on NASA's Johnson Space Center, Houston, Texas, this month to compare notes on what we have learned about the Moon.

The occasion is the March 17 through 21 Sixth Annual Lunar Science Conference.

The focus of this year's five-day symposium will be on six main topics: constraints on structure and composition of the deep interior; characteristics and movement of materials in the lunar regolith; characterization and evolution of the mare basins; characterization and evolution of the lunar crust; nature of impact processes and their effects on lunar materials; and the Moon as an interplanetary/interstellar probe.

The Monday morning concurrent session features five papers which address themselves to broad statements concerning the evolution of the Moon.

On Tuesday afternoon no concurrent sessions are scheduled so that the scientists can discuss any special lunar problems that do not fit into the topic areas established for the conference.

On Thursday evening the featured speaker will be Dr. Carl Sagan, astronomer from Cornell University, who will talk about "The Planetary Perspective."

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On Friday, March 21, summary sessions will be held for each of the six topic areas. One scientist will be responsible for each topic throughout the week and will present an overview at Friday's session.

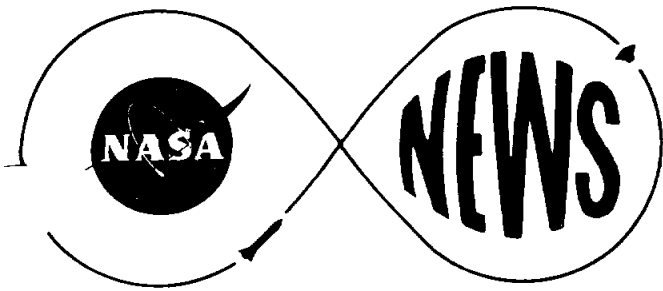
The program committee for the Lunar Conference consists of co-chairmen Dr. Larry Haskin (Chief, Planetary and Earth Sciences Division, JSC) and Dr. Robert Pepin (Director, Lunar Science Institute, Houston); Dr. Russell Merrill, LSI; Dr. Don Burnett, University of California at Los Angeles; Dr. James Head, former acting chief, LSI and presently at Brown University, Providence, R.I.; Dr. Marcus Langseth, Lamont Daherty Observatory, Columbia University, New York; Dr. J. J. Papika, State University of New York at Stonybrook; Dr. Nafi Toksov, Massachusetts Institute of Technology, Cambridge; Dr. Jeff Warner, JSC; and Floyd Roberson from NASA Headquarters.

Last year's conference was dedicated to the late Dr. Paul W. Gast, one of the nation's leading experts in the field of lunar geochemistry and architect of the space agency's lunar program. Dr. Gast died in May, 1973.

This is the fourth consecutive year that the conference has been held at the Johnson Space Center. The first two lunar conferences were held at the Albert Thomas Convention Center in downtown Houston. In the past, attendance has ranged from 500 to about 1,500 people.

Opening ceremonies for this year's conference will be held Monday at 8:30 a.m. in the Main Auditorium (Bldg. 2) at the space center. Morning and afternoon sessions are scheduled in the auditorium and at the Robert R. Gilruth Recreation Center, also on the campus at the space center.

Registration information can be obtained from the Johnson Space Center Public Affairs Office, 713/483-5111. Abstracts, schedules and badges will be provided to attending journalists upon arrival at JSC.



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:
March 6, 1975

RELEASE NO: 75-13

DR. LEACH GETS FLEMMING AWARD

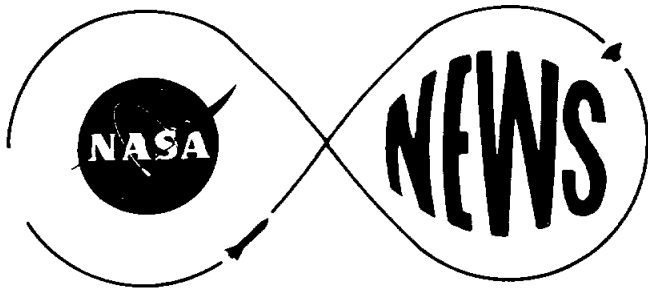
Dr. Carolyn S. Leach, head of the JSC Endocrine and Biochemistry Laboratories of the Biomedical Research Division, received the Arthur S. Flemming Award February 27 at ceremonies in Washington, D.C. Sponsored by the Washington Downtown Jaycees, the award is made annually to ten outstanding young men and women in the federal government, and is named in honor of Dr. Arthur S. Flemming, a former U.S. Civil Service Commissioner and Secretary of Health, Education and Welfare from 1958-61.

Dr. Leach was cited by the award for her contributions in research into the biochemical effects on man of sustained flight in the weightless environment of space. She had earlier received the National Civil Service League's 1974 Career Service Award for special achievement in October for her role as principal investigator for the Skylab life sciences biochemistry experiment.

Dr. Leach is a native of Leesville, Louisiana and earned a bachelor of science degree in biology from Northwestern State College in Natchitoches. She completed work on her doctorate in physiology and biochemistry at Baylor University College of Medicine, Houston.

-end-





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:
March 7, 1975

RELEASE NO: 75-14

ALSO RELEASED AT NASA HEADQUARTERS

CRYSTALS TO BE GROWN IN SPACE DURING ASTP MISSION

Experiments designed to study growing large crystals in space will be conducted during a joint United States-Russian manned space flight next summer. American astronauts and Soviet cosmonauts plan to demonstrate to the world next July that spacecraft manufactured and launched by two different nations can rendezvous and dock in space and their crews can communicate, using each other's language to successfully complete the joint mission.

The crystal-growing experiments aboard the Apollo Soyuz Test Project spacecraft is designed to demonstrate a technique that holds promise in improving communications on the ground.

The experiment, called MA-028 Crystal Growth in Zero Gravity by NASA, is designed to find out if large, defect-free crystals can be grown in space. Crystals are used on earth in the semiconductor electronics industry for such purposes as radio, television and other communications.

Results of a similar experiment conducted on the Skylab missions in 1973 and 1974 indicate that space-grown crystals are superior to those grown on the ground.

The experiment consists of six transparent tubes, each of which contain different salt solutions which, when mixed, form an insoluble compound -- the compound which will grow into a crystal. The center compartment contains pure water



- 2 -

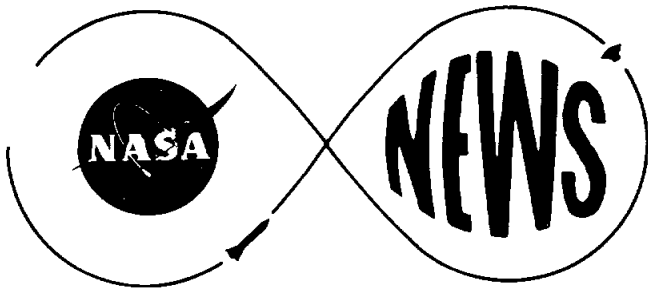
RELEASE NO: 75-14

and, depending on the crystal to be grown, possibly a small seed crystal. During the experiment, the outer compartments will be opened to allow the salt solutions to diffuse toward each other and mix in the center compartment.

Principal investigator for this experiment is Dr. M. R. Lind of Rockwell International's Space Center in California.

- end -

March 6, 1975



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:
March 10, 1975

RELEASE NO: 75-16

JSC TO HOST EDUCATOR AEROSPACE WORKSHOP

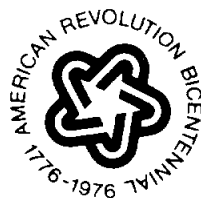
An aerospace workshop for educators will be held at the NASA Johnson Space Center June 9-20, 1975. Sponsored jointly by JSC, the University of Houston and the Civil Air Patrol, the workshop will include non-technical aviation and space lectures and field trips aimed toward elementary, secondary and college-level administrators, counselors and teachers.

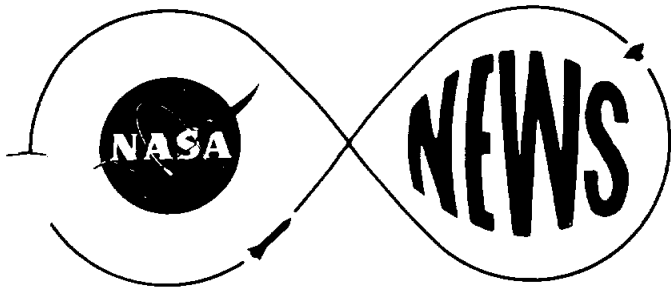
Topics to be covered include lunar science, model rockets, hot-air balloons, experimental aircraft, soaring, Mission Control Center, Earth Resources, the Apollo-Soyuz Test Project and Space Shuttle. Field trips will cover activities at the Federal Aviation Agency's Houston Air Traffic Control Center, Ellington Air Force Base, and the Civil Air Patrol.

The fee for the workshop is \$60 and includes materials, books and field-trip transportation. Three semester hours undergraduate or graduate credit will be offered by the University of Houston to persons attending the workshop.

Workshop applications should be made to Robert M. Jones, co-director of the University of Houston Office of Curriculum and Instruction, Houston, TX 77004, 713/749-1687; or to Jim Poindexter, Space Science Education Project, Johnson Space Center, Houston, TX 77058, 713/483-2938.

- end -





**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Terry White
713/483-5111

FOR RELEASE:
March 10, 1975
3 p.m.

RELEASE NO: 75-17

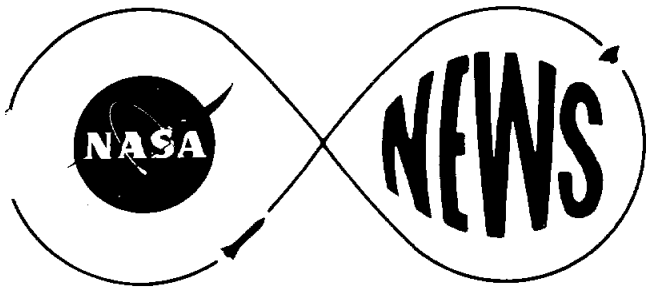
NASA NEGOTIATES CROP INVENTORY CONTRACT WITH GOODYEAR

The National Aeronautics and Space Administration has selected Goodyear Aerospace Corporation (GAC), Akron, Ohio, for negotiations leading to a contract to provide a Special Purpose Processor to support the Large Area Crop Inventory Experiment at the Lyndon B. Johnson Space Center, Houston, Texas.

The total amount of the contract will exceed \$1,000,000. GAC will perform the work at their facility in Akron, Ohio.

- end -





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

FOR RELEASE:

March 19, 1975
10 a.m.

RELEASE NO: 75-17

APOLLO-SOYUZ SIMULATIONS BETWEEN MOSCOW AND HOUSTON SCHEDULED

Flight controllers and crews for the Apollo-Soyuz Test Project (ASTP) are scheduled this week to begin simulations of various phases of the July 1975 joint flight with Moscow and Houston control centers tied together by communication lines.

The simulations will begin Thursday, March 20, with a rendezvous between the Soyuz and Apollo. Soviet crewmen and United States crewmen will be in simulators in their respective countries with both control centers fully manned. Tracking stations will be simulated for the six days of exercises that are scheduled.

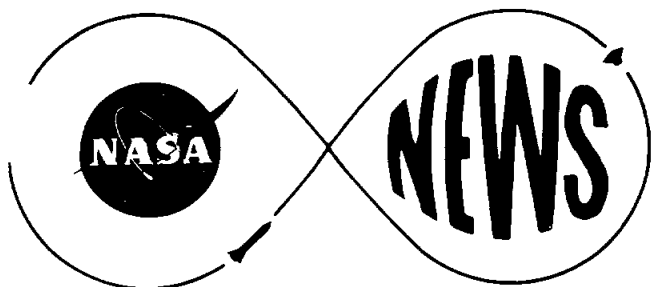
Other phases of the joint mission that will be simulated include Soyuz and Apollo launches, undocking and Apollo separation, and the second and third crew transfers and joint activities. The final day of simulations is scheduled for March 28.

This training period will check out control center personnel interaction, with crews' participation approaching the actual flight conditions, including contingency situations.

Communications between the two control centers will include voice, teletype, datafax and television. In each of the control centers, flight directors, flight control personnel, specialists of other country, and mission support personnel required for interaction between the control centers will participate as in the actual flight.

The two control centers were first tied together during checkout simulations last December. Other joint control center checkouts and simulations are scheduled for periods in May, June, and early July before the flight.





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:

March 21, 1975

RELEASE NO: 75-18

ALSO RELEASED AT NASA HEADQUARTERS

LUNAR SAMPLES NOW AVAILABLE FOR TEACHING PURPOSES

Colleges and universities in the United States may now borrow lunar samples for teaching purposes for periods of up to several months.

A new NASA program is making available thin sections of lunar materials to institutions offering undergraduate or graduate work in the geosciences.

Each of the "thin-section educational packages" contains a number of thin sections of representative lunar material, mounted on microscope slides. A thin-section is a slice of rock ground thin enough (.03 millimeters or .0012 inches) to enable light to be transmitted through it so that its minerals and texture may be studied in detail.

Samples are from three general types of rock found on the Moon: plutonic rocks (igneous rocks from depth), volcanic rocks, and breccias (sedimentary or crushed types). There are also samples of the lunar soil, which consist of ground-up rock and various glasses formed by fusion and rapid meteoritic heating.

Each package will include a brief description of the samples. Associated material relates the samples to broad categories of lunar rocks, discusses the occurrence of these rocks on the Moon and shows their significance to the understanding of lunar history and processes.

The purpose of the program is to broaden the use of the lunar sample collection



RELEASE NO: 75-18

- 2 -

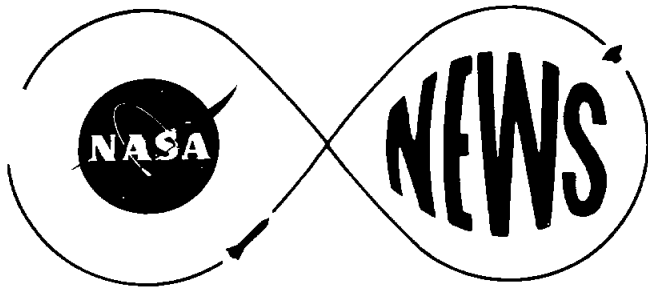
for scientific and educational purposes and to provide the samples as an educational tool.

To qualify for the samples, educational institutions must enter into a cooperative agreement with NASA which outlines security conditions for the safekeeping of the lunar material, which is considered irreplaceable. There is no cost to the institutions for the use of the lunar samples, and the only equipment needed to study them is a standard petrographic microscope.

Faculty members may write directly to the Lunar Sample Curator, Code TL, Johnson Space Center, Houston, Texas 77058, for further information.

- end -

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**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:
March 28, 1975

RELEASE NO: 75-19

ASTP EXPERIMENT TO PROBE ULTRAVIOLET RADIATION SOURCES

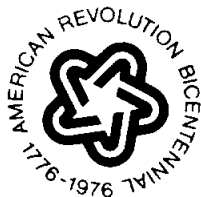
A new branch of astronomy may be opened and a new understanding of the universe may be reached if a telescope on the Apollo spacecraft in next summer's Apollo Soyuz mission is successful in detecting sources of extreme ultraviolet radiation in the night sky.

Scientists believe that there are such celestial objects but to date no systematic searches for them have been made.

Among the objects that might emit the extreme ultraviolet radiation are celestial things with such interesting names as bright stars, planetary nebulae, red giants, subgiants, dwarfs, pulsating white dwarfs and contact binary systems. Previously, scientists had believed that the nature of interstellar gas would not permit the detection of the extreme ultraviolet radiation (roughly between 50 and 500 angstroms) to an extent that would be valuable to astronomy.

However, more recent data suggest that the interstellar gas is not evenly distributed in space and it may be possible to observe the extreme ultraviolet radiations in some areas.

The telescope on the Apollo spacecraft which will perform the survey consists of several concentric "grazing incidence" mirrors which direct radiation to an electronic detector. The telescope is fixed rigidly to the Apollo spacecraft structure and pointing at targets will be done by changing the attitude of the entire spacecraft.



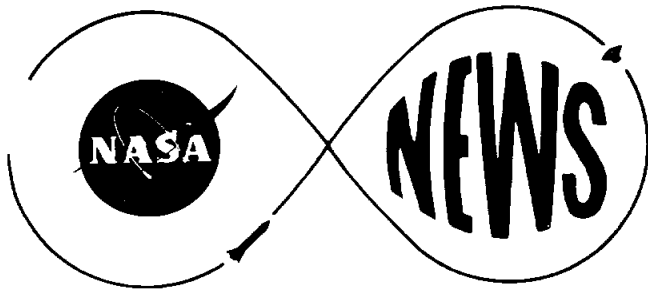
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RELEASE NO: 75-19

The principal investigator for this experiment, entitled, MA-083, is Professor C. S. Bowyer of the Space Science Laboratory at the University of California at Berkeley. Dr. M. Lampton of the same laboratory is a co-investigator.

-end-

March 28, 1975



**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:
April 4, 1975

RELEASE NO: 75-20

GOODYEAR AWARDED CONTRACT FOR LACIE

Goodyear Aerospace Corporation of Akron, Ohio has been awarded a contract for a Special Purpose Processor (SPP) to augment existing computing capability for the NASA's Large Area Crop Inventory Experiment.

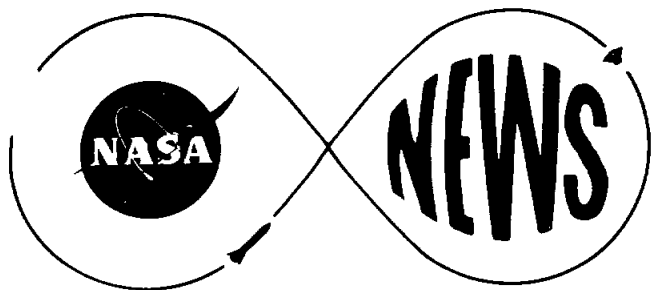
Goodyear was awarded the contract on a firm-fixed-price basis for \$1,388,498. The contract covers the design, fabrication, delivery and installation of the Special Purpose Processor and any associated system software.

Acceptance date for the SPP is December 30, 1975.

The Large Area Crop Inventory Experiment is a three-way project with the U.S. Department of Agriculture, the National Oceanic and Atmospheric Administration and the NASA. The principal goal of the LACIE project is to determine if wheat production forecasts can be improved using satellites in earth orbit. The experiment will start with North American wheat fields. If results from the North American study prove successful, the project will expand to include other wheat-growing areas of the world.

- end -





**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

John E. Riley
713/483-5111

FOR RELEASE:
Immediately

RELEASE NO: 75-21

USSR/USA Discussions on Soyuz Launch Failure

Professor Konstantin D. Bushuyev of the USSR and Dr. Glynn S. Lunney of the USA, Technical Directors for the Apollo Soyuz Test Project, today discussed the April 5 Soyuz launch failure during one of their regular telephone conferences.

Professor Bushuyev reported that the launch vehicle which failed was one of the earlier versions of the booster used in their national program. He told Dr. Lunney that the ASTP booster is a modernized version with greater payload capability.

"The Professor said the failure is still being analyzed, but he positively assured us that it will not affect our joint program or the July 15 launch date," Lunney reported.

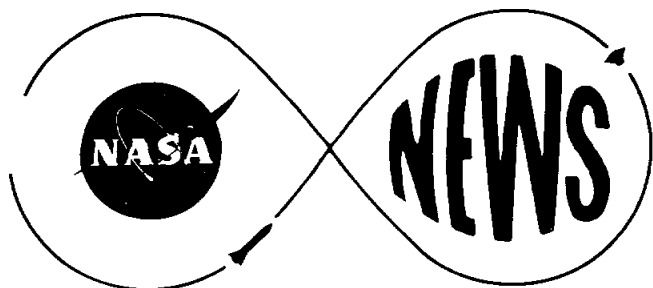
"He said there is no suspicion about systems that are common in the old and modernized, ASTP versions of the booster. He said that there are differences in the two versions and that the ASTP version has been used successfully in previous flights."

"I told him that I wanted more details on the problem, and he agreed to provide that to me by telegram after their analysis is developed further. We also agreed to discuss this subject further when we meet in Moscow next month," Lunney said.

- end -

April 8, 1975





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Jack Riley
713/483-5111

FOR RELEASE:
April 10, 1975

RELEASE NO: 75-22

FINAL ASTP CREW TRAINING IN USSR

American and Soviet space crews will begin their final joint training session in the Soviet Union next week in preparation for the Apollo-Soyuz Test Project mission in earth orbit next July.

Eleven U.S. astronauts and five support personnel will spend approximately three weeks in the USSR. Most of the training will be at the Gagarin Cosmonaut Center in Star City, near Moscow. On April 28, the crews are scheduled to inspect the Soyuz spacecraft at the Baykonur launch site near Tyuratam.

The astronauts are prime crewmen Brig. Gen. Thomas P. Stafford, Vance D. Brand and Donald K. Slayton; backup crewmen Capt. Alan L. Bean, Capt. Ronald E. Evans and Lt. Col. Jack R. Lousma; support crewmen Lt. Col. Karol J. Bobko, Cdr. Robert L. Crippen, Lt. Col. Robert F. Overmyer and Cdr. Richard H. Truly; and Capt. Eugene A. Cernan, Special Assistant to the Apollo Spacecraft Program Manager.

Backup and support crews will arrive in Moscow April 13. The prime crew will arrive April 15. The training period will end May 2, completing the schedule of one familiarization period and two training sessions in each country. Training will be concentrated on communications, joint mission activities planned in the Soyuz, and contingency procedures involving Soyuz.

- more -



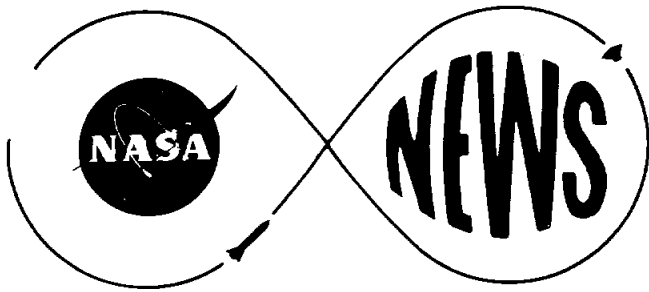
Soviet cosmonauts inspected the Apollo spacecraft on February 10, 1975, at the Kennedy Space Center, Florida, prior to their final training session at JSC.

Joint mission simulations involving control centers, tracking stations and crews of both countries are scheduled in May and June; however, the prime crews next face-to-face meeting after May 2 will be on July 17, when they exchange greetings in space after Apollo has docked with Soyuz.

Launch date for both spacecraft is July 15. Docking is scheduled on July 17, separation on July 19, Soyuz landing on July 21 and Apollo landing on July 24. While the spacecraft are docked, the crews will exchange visits and conduct five joint experiments. The Apollo crew will be involved in 22 additional experiments after separating from Soyuz. The primary mission objective is to test compatible rendezvous and docking systems and techniques which were developed jointly by both nations.

- end -

August 9, 1975



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Robert V. Gordon
713/483-5111

FOR RELEASE:
April 9, 1975

RELEASE NO: 75-23

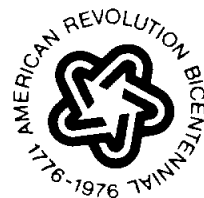
SERV-AIR CONTRACT

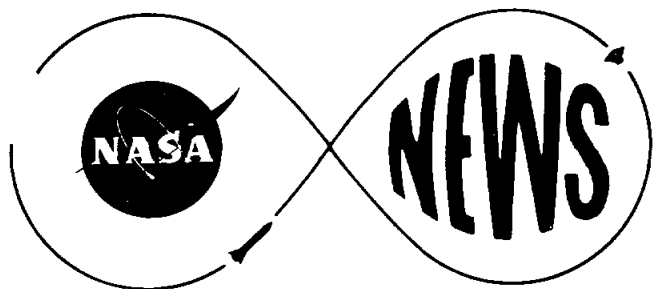
The National Aeronautics and Space Administration has executed a \$3.65 million supplemental agreement with Serv-Air, Inc., for continuation of a contract for maintenance of aircraft assigned to the Johnson Space Center, Houston, Texas.

These aircraft are used for earth observation and astronaut proficiency training. The work to be performed includes maintenance, modification, and related ground support of the JSC assigned aircraft; maintenance and ground support of transient aircraft; engineering, design, fabrication, and installation of electronic and mechanical systems, subsystems, components, and equipment; and related logistic functions.

This agreement provides for the third and final year of the Serv-Air contract beginning April 1, 1975. The third year of performance of this cost-plus-award-fee contract is valued at approximately \$3.65 million and brings the total estimated contract value to \$9.57 million.

- end -





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Robert V. Gordon

713/483-5111

RELEASE NO: 75-24

FOR RELEASE:

April 9, 1975

MARTIN-MARIETTA RECEIVES AMU CONTRACT

The conceptual design of an astronaut maneuvering unit for use in the Space Shuttle program is the subject of a \$373,000 study contract awarded by the NASA Johnson Space Center to the Martin-Marietta Corporation in Denver, Colorado.

Martin has been asked to investigate the application of current and emerging technology and to develop several candidate conceptual designs of a manned maneuvering unit (MMU). After NASA selects the most promising concept, Martin will perform a detailed system design and fabricate a high fidelity mockup of the MMU and its support station. The ten month contract also calls for Martin to design and fabricate a set of prototype MMU hand controller.

The utility of the "Buck Rogers" type MMU to the Space Shuttle is a direct spinoff from the eight-month long Skylab Program concluded in February 1974. The highly successful experiment M509 Maneuvering Unit flown aboard Skylab, demonstrated the extreme precision and control with which an astronaut wearing a space suit and life support equipment can maneuver in zero-g and perform useful tasks. The M509 experiment also provided the preliminary design criteria for the Space Shuttle MMU.

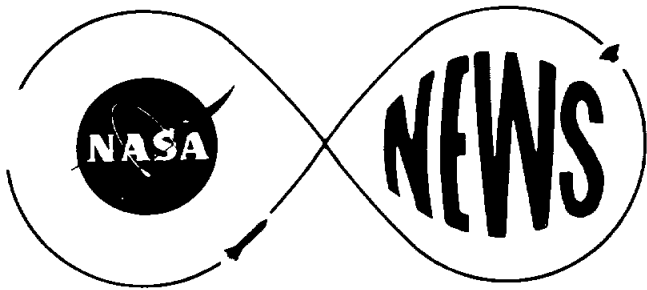
The new MMU will provide crewmen the capability to fly around outside the Shuttle spacecraft. Tasks such as inspection, maintenance,



repair, retrieval, assembly, and photography can then be performed in support of the Space Shuttle and its payloads. The MMU will be shaped like a horseshoe and will be designed to fit around the EVA life support backpack. This approach allows the MMU to be readily donned for the EVAs where the crewman must reach areas outside of the Shuttle payload bay.

The contract calls for Martin to hold two design reviews and have the final report prepared by the end of the ten-month contract.

- end -



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Milton E. Reim
713/483-5111

FOR RELEASE:
April 10, 1975

RELEASE NO: 75-25

U. S. WORKING GROUP FOR ASTP MAKES TRIP TO USSR

Thirty-two members of the NASA Working Group One for the Apollo Soyuz Test Project will depart this week for the Soviet Union to work on the joint crew activities plan for the July mission.

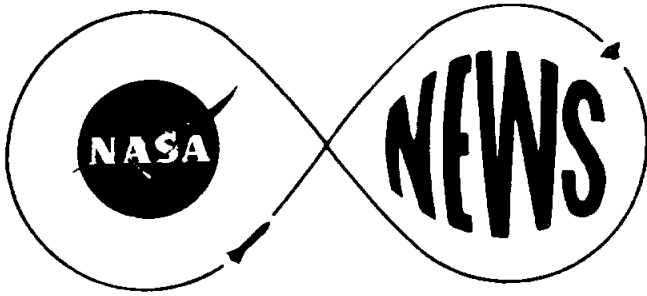
The Johnson Space Center working group will hold three weeks of joint meetings with their counterparts in the Soviet Union. Topics such as crew training, crew transfer procedures, joint control center operations, inflight television, photography and experiments will be discussed and agreed upon for the flight.

The team leaders for the group will be M. P. (Pete) Frank and Frank Littleton from the JSC Flight Control Division. Members of the group will be made up of representatives from various elements of the Center. Scheduled departure from JSC is Friday, April 11. The group will arrive in Moscow on April 13 and is scheduled to return on May 2.

One more trip to the Soviet Union by representatives of this working group is scheduled for sometime early in June. At that meeting final details will be worked out for the ASTP mission.

- end -





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**FOR RELEASE:
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RELEASE NO: 75-26

SAMUEL V. GLORIOSO HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Samuel V. Glorioso of Alexandria, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Glorioso is head of the Metallic Materials Section in Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is responsible for material selection and use, including structural integrity of pressure vessels, corrosion and stress corrosion control for ASTP.

- more -



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The ASTP flight scheduled for July will be the first joint manned spaceflight by two nations.

Launch date for both spacecraft is July 15. The Soviet spacecraft Soyuz will be launched from the Baikonur launch site near Tyuratam at 7:20 a.m. CDT with two men aboard. The United States Apollo spacecraft will be launched with three astronauts aboard a Saturn IB rocket from the Kennedy Space Center, Florida launch site at 2:50 p.m. CDT, approximately $7\frac{1}{2}$ hours later.

After achieving Earth orbit, the U.S. astronauts will separate from the rocket and maneuver to extract the docking module. During the next two days the astronauts will perform a series of maneuvers to place Apollo in the same orbit with Soyuz. They will also check-out the docking module in preparation for docking with the Soyuz spacecraft at 11:15 a.m. CDT on July 17.

The two days that the spacecraft are linked together, each of the crew members in both spacecraft will visit the spacecraft of the other country. The combined US-USSR crewmen will perform joint experiments and radio/television reporting from both Apollo and Soyuz.

The final undocking of the two spacecraft will occur about 11:30 a.m. CDT on July 19. The spacecraft will separate about three hours later and continue on a program of autonomous flight. The Soyuz will land in the USSR on July 21 and the Apollo will make a water landing near Hawaii on July 24 at 4:18 p.m. CDT.

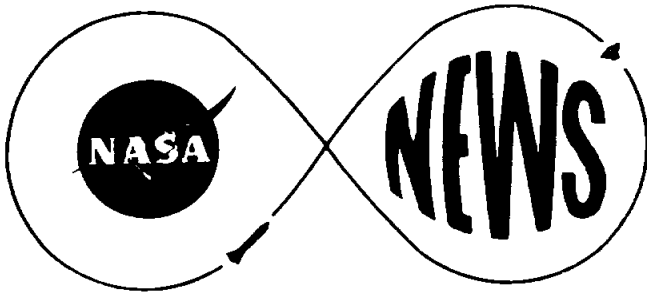
U.S. crewmen are Thomas P. Stafford, Vance D. Brand and Donald K. Slayton. The Soviet crewmen are Alexei Leonov and Valeri Kubasov.

During the entire flight, ground control centers of both countries will maintain communications with each other as well as their spacecraft in orbit. Mission Control Centers in Houston and Moscow will be tied together with telephone, teletype, facsimile and television lines.

The joint docking mission of the Soyuz and Apollo spacecraft will be a major step in the realization of agreements between the Soviet Union and the United States on cooperation in exploration and peaceful uses of outer space.

The primary goal of the joint flight is to test and evaluate the compatibility of systems for rendezvous, docking and the transfer of cosmonauts and astronauts between future manned spacecraft and space stations.

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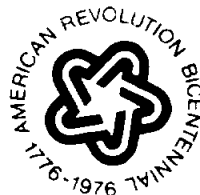
PAUL W. SHORES HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

Paul W. Shores of Greensboro, North Carolina, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

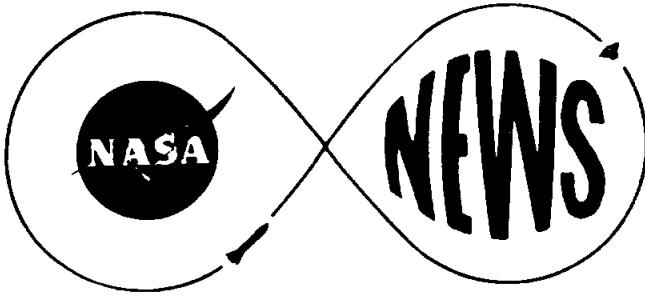
Shores is head of the Tracking Systems Section of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is with ASTP Working Group Four for Tracking and Communications.

He is a 1959 graduate of North Carolina State, with an electrical engineering degree.

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RELEASE NO: 75-26

A. DON TRAVIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

A. Don Travis of Crawford, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

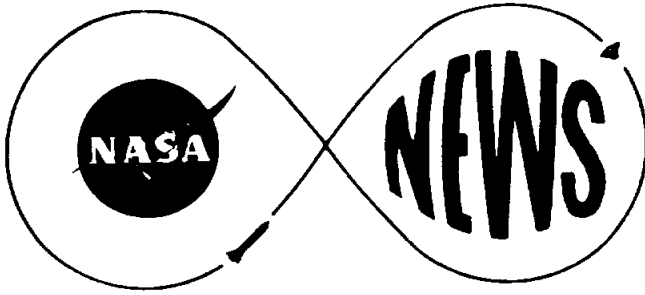
Travis is head of the Communications Evaluation Section of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is subsystem manager for communications systems performance engineering and test, member of Working Group Four for Communications, and United States manager for joint USA/USSR communications system compatibility tests.

He is a 1961 graduate of the University of Texas with a BSEE degree.

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THOMAS J. GRAVES HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Thomas J. Graves of Zwolle, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

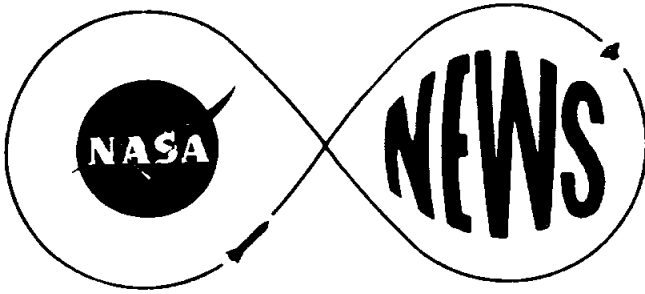
Graves is in the Auxiliary Propulsion and Pyrotechnics Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is as a member of the explosive devices safety assessment team of ASTP Working Group Four.

He is a 1963 graduate of Northeast Louisiana State University with a BS degree.

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BILLIE L. GIBSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

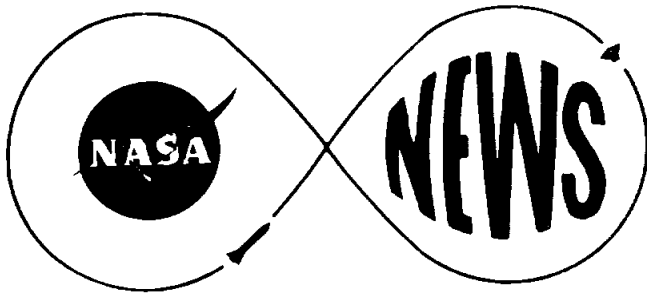
Billie L. Gibson of Aiken, South Carolina, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Gibson is secretary to the manager of the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support.

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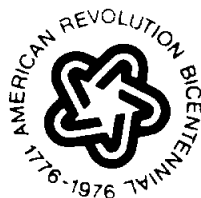
DAVID H. CORDINER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

David H. Cordiner of Cheyenne, Wyoming is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

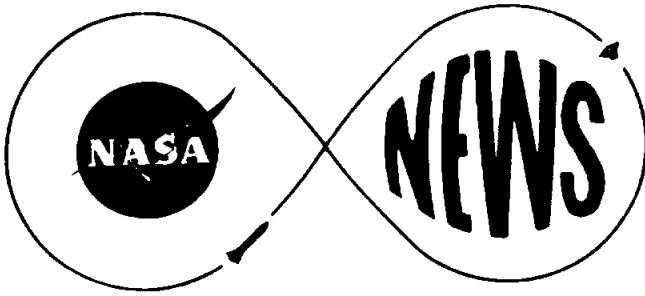
Cordiner is a technical publication writer/editor. His assignment for this joint United States-Soviet Union manned space mission is mission evaluation report editor.

He is a 1950 graduate of the University of Wyoming with a BS degree.

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PERCY S. MIGLICCO HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

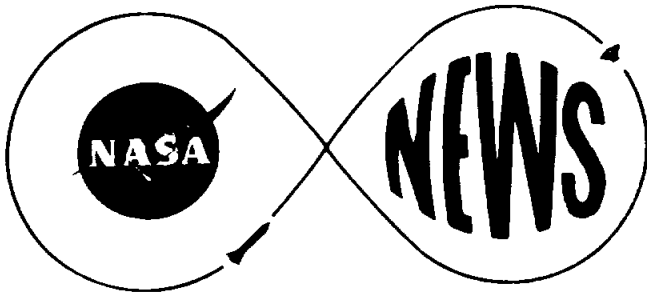
Percy S. Miglicco of Alvin, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Miglicco is manager of the Systems Integration Office. His assignment for this joint United States-Soviet Union manned space mission is to support anomaly investigation for ASTP.

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VIRGINIA M. KING HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

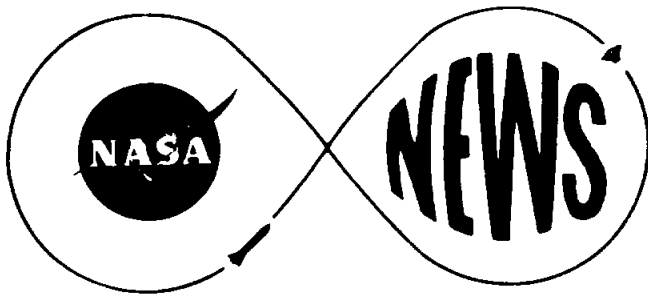
Virginia M. King of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

She is a secretary in the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support for systems integration for ASTP.

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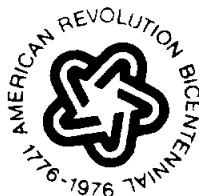
JOHN A. ZILL HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

John A. Zill of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

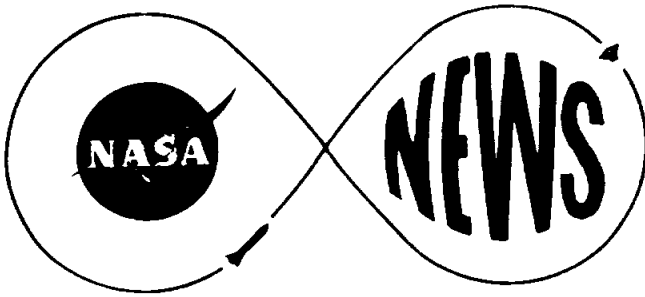
Zill is an aerospace engineer in the Anomaly Office of the Program Operation Office. His assignment for this joint United States-Soviet Union manned space mission is to provide program support in the anomalies and hardware problem areas.

He is a 1964 graduate of I.T.E.S.M., Monterrey, Nuevo Leon, Mexico, with a L.C.F. degree in physics.

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VERBY L. BALINAS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Verby L. Balinas of Baton Rouge, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

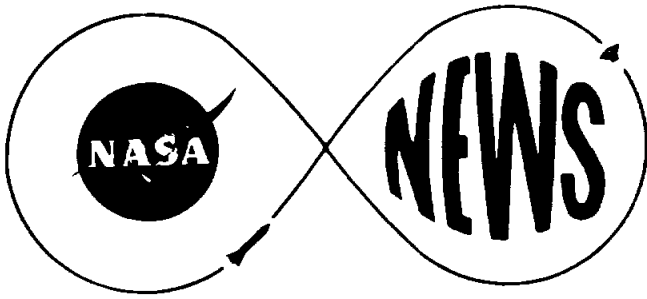
Balinas is secretary to the manager of the Systems Engineering Office. Her assignment for this joint United States- Soviet Union manned space mission is to provide secretarial support prior to and during the ASTP mission.

She attended Louisiana State University from 1937-39, and presently her son Lee Wayne is a student at LSU.

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FRANCES N. CAUDLE HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

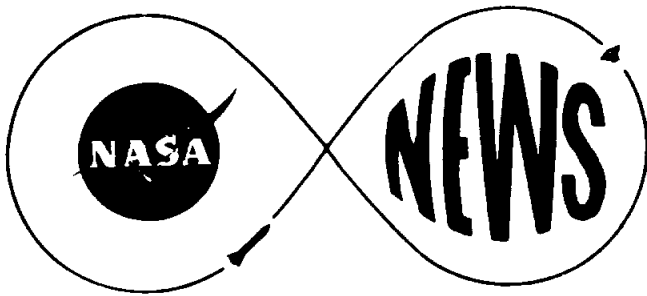
Frances N. Caudle of Texas City, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Caudle is a mail and file clerk in the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide clerical and secretarial support to the Flight Operations Management Room in Mission Control Center during the ASTP flight.

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CHESTER H. JENKINS HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

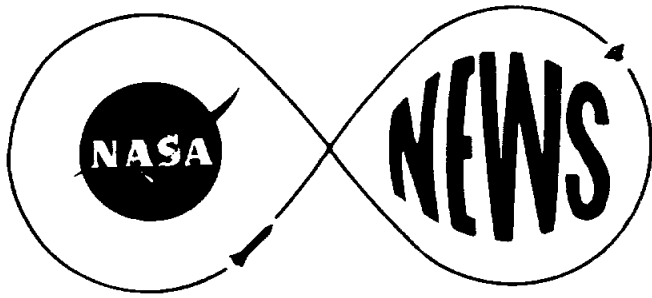
Chester H. Jenkins of Dickinson, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Jenkins is a mail and file clerk in the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is to provide clerical and secretarial support to the Flight Operations Management Room in Mission Control Center during the ASTP flight.

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STANLEY FABER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Stanley Faber of Providence, R. I., is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Faber is chief of the Simulation Branch in the Flight Simulation Division. His assignment for this joint United States-Soviet Union manned space mission is to supervise all simulator operations and serve as division ASTP point of contact.

He is a 1948 graduate of the University of Rhode Island with a BS degree in mechanical engineering.

- more -



APR 21 1975

The ASTP flight scheduled for July will be the first joint manned spaceflight by two nations.

Launch date for both spacecraft is July 15. The Soviet spacecraft Soyuz will be launched from the Baikonur launch site near Tyuratam at 7:20 a.m. CDT with two men aboard. The United States Apollo spacecraft will be launched with three astronauts aboard a Saturn 1B rocket from the Kennedy Space Center, Florida, launch site at 2:50 p.m. CDT, approximately 7 1/2 hours later.

After achieving Earth orbit, the U.S. astronauts will separate from the rocket and maneuver to extract the docking module. During the next two days the astronauts will perform a series of maneuvers to place Apollo in the same orbit with Soyuz. They will also checkout the docking module in preparation for docking with the Soyuz spacecraft at 11:15 a.m. CDT on July 17.

The two days that the spacecraft are linked together, each of the crew members in both spacecraft will visit the spacecraft of the other country. The combined US-USSR crewmen will perform joint experiments and radio/television reporting from both Apollo and Soyuz.

The final undocking of the two spacecraft will occur about 11:30 a.m. CDT on July 19. The spacecraft will separate about three hours later and continue on a program of autonomous flight. The Soyuz will land in the USSR on July 21 and the Apollo will make a water landing near Hawaii on July 24, at 4:18 p.m. CDT.

U.S. crewmen are Thomas P. Stafford, Vance D. Brand and Donald K. Slayton. The Soviet crewmen are Alexei Leonov and Valeri Kubasov.

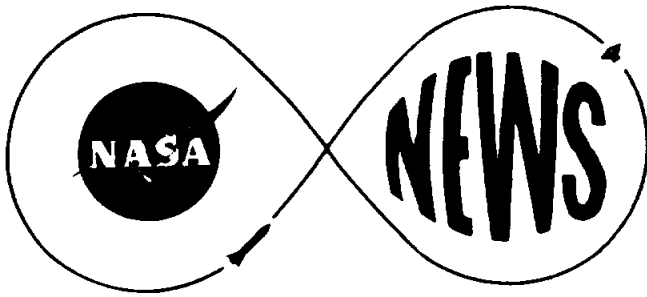
During the entire flight, ground control centers of both countries will maintain communications with each other as well as their spacecraft in orbit. Mission Control Centers in Houston and Moscow will be tied together with telephone, teletype, facsimile and television lines.

- 3 -

The joint docking mission of the Soyuz and Apollo spacecraft will be a major step in the realization of agreements between the Soviet Union and the United States on cooperation in exploration and peaceful uses of outer space.

The primary goal of the joint flight is to test and evaluate the compatibility of systems for rendezvous, docking and the transfer of cosmonauts and astronauts between future manned spacecraft and space stations.

- end -



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RELEASE NO: 75-26

MARY M. PATINO HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

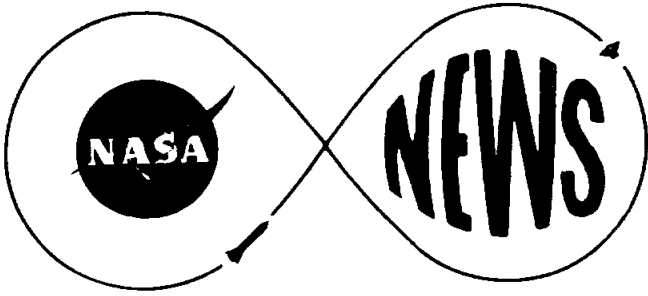
Mary M. Patino of Corpus Christi, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Patino is a mail and file clerk in the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to process incoming mail from the NASA centers in support of the ASTP flight.

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FOR RELEASE:

UPON RECEIPT

RELEASE NO: 75-26

MILTON W. STEINTHAL HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT
IN JULY

Milton W. Steintahl of Medford, Oregon, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

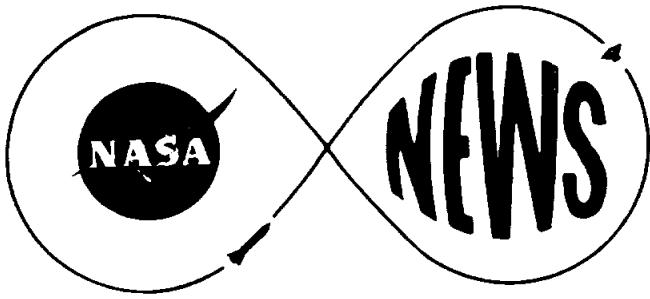
Steintahl is in the Materials Technology Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is the responsibility for materials control and the certification of these materials to be safe from flammability and toxicity.

He is a 1957 graduate of the University of Washington with a BSME degree.

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**FOR RELEASE:
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RELEASE NO: 75-26

DWIGHT L. SUITER HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

Dwight L. Suiter of Dear Park, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

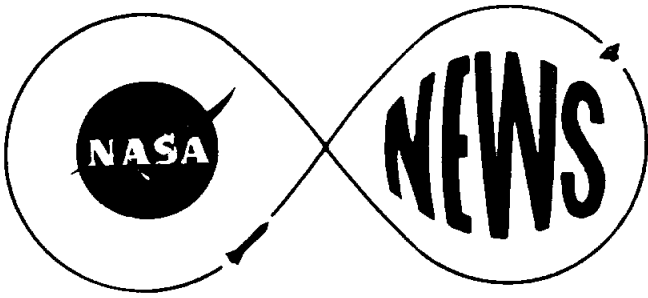
Suiter is in the Systems Integration Office of Program Operations. His assignment for this joint United States-Soviet Union manned space mission is responsibility for lightning protection to prevent possible damage to the ASTP launch vehicle prior to and during the launch of the flight from Kennedy Space Center in Florida.

He is a 1960 graduate of Texas Christian University with a BA degree.

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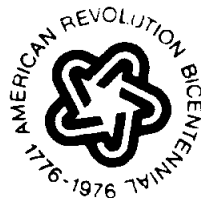
RELEASE NO: 75-26

NORMA J. WALKER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

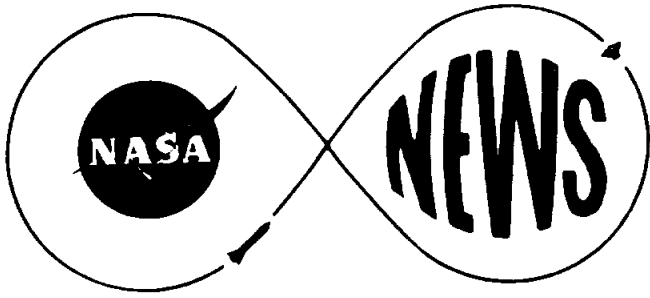
Norma J. Walker of Port Lavaca, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Walker is a correspondence control clerk in the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to review ASTP correspondence for the Program Operations Office.

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**FOR RELEASE:
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RELEASE NO: 75-26

CLARENCE MEYERS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

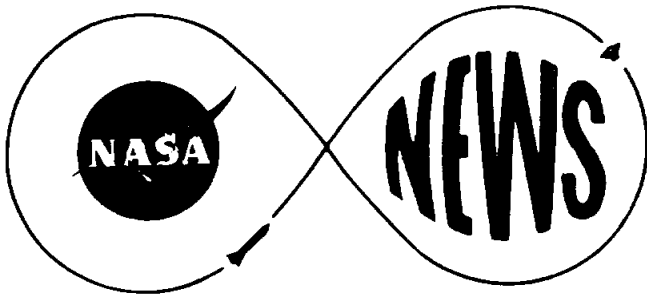
Clarence Meyers of Houston, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Meyers is a mail and file clerk in the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is to provide clerical and secretarial support to the Flight Operations Management Room in Mission Control Center during the ASTP flight.

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RELEASE NO: 75-26

JOSEPH L. J. LOUIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

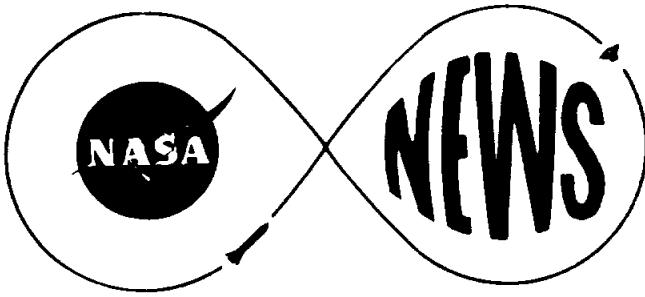
Joseph L. J. Louis of Houston, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Louis is a correspondence and records research analyst in the Program Administrative Office. His assignment for this joint United States-Soviet Union manned space mission is to support the Flight Operations Management Room in Mission Control Center during the ASTP flight.

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ARTHUR REUBENS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Arthur Reubens of New York City is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

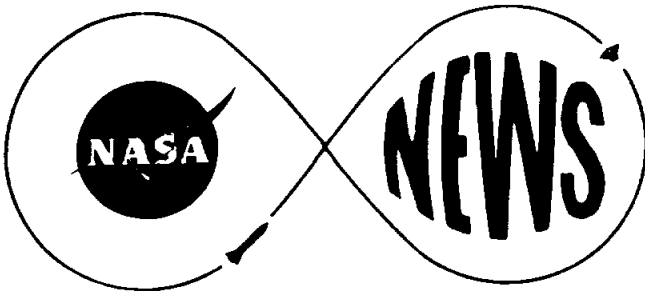
Reubens is in the Anomaly Office of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is mission anomaly analysis for the ASTP flight.

He is a 1956 graduate of the U.S. Merchant Marine Academy with a BSME degree.

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DAVID W. CAMP HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

David W. Camp of Comanche, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

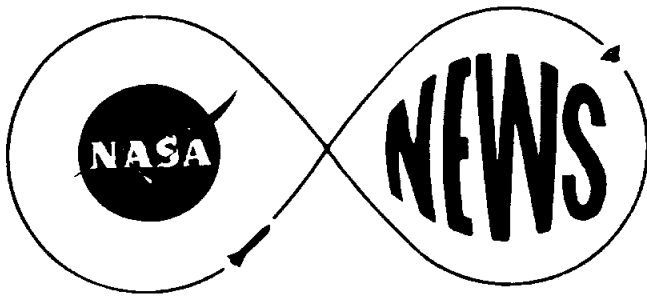
Camp is in the Test Division of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is mechanical/fluid ground support equipment for ASTP.

He is a 1961 graduate of the University of Oklahoma with a BSME degree.

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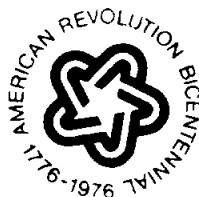
ALLAN W. JOSLYN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Allan W. Joslyn of Newcastle, Wyoming, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

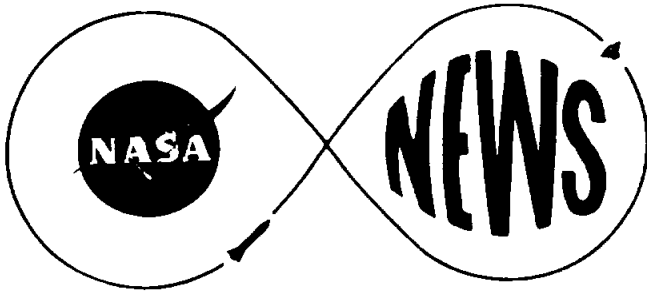
Joslyn is in the Apollo Spacecraft Program Office. His assignment for this joint United States-Soviet Union manned space mission is thermal and environmental systems engineer for ASTP.

He is a 1959 graduate of the South Dakota School of Mines and Technology with a BSME degree.

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ROBERT L. BLOUNT HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert L. Blount of Steelville, Missouri, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

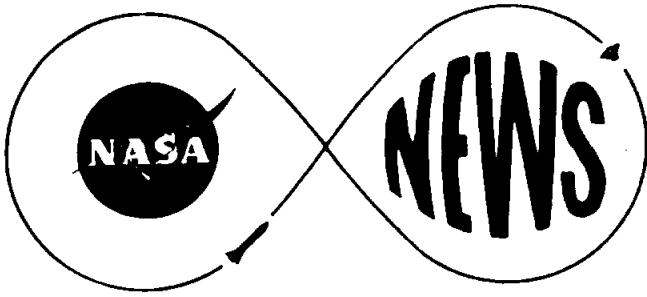
Blount is Manager of the Anomaly Office in the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is manager of mission anomaly detection for the ASTP flight.

He is a 1957 graduate of the University of Missouri-Rolla with a BSEE degree.

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JAMES A. PORTER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

James A. Porter of War, West Virginia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

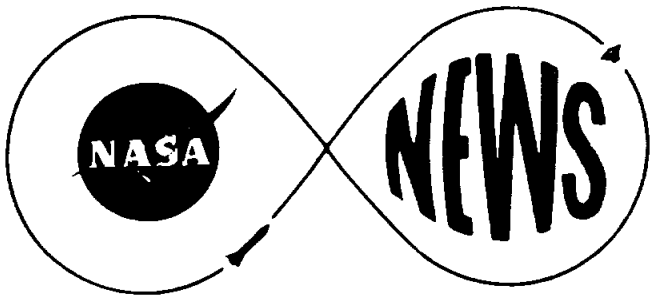
Porter is a Telecommunications Engineer in Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is a telecommunication engineer for radio links analysis and performance predictions for ASTP.

He is a 1963 graduate of Wayne State University with BS and MA degrees.

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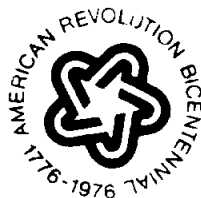
WILLIAM K. CREASY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

William K. Creasy of Gibonville, North Carolina, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

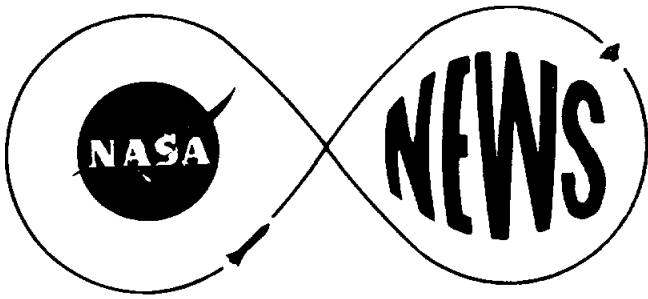
Creasy is in the Spacecraft Design Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is a member of ASTP Working Group for the docking mechanism design, interface and control.

He is a 1957 graduate of North Carolina State with a BS degree.

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LEO R. DICKSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Leo Randy Dickson of Portsmouth, Virginia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

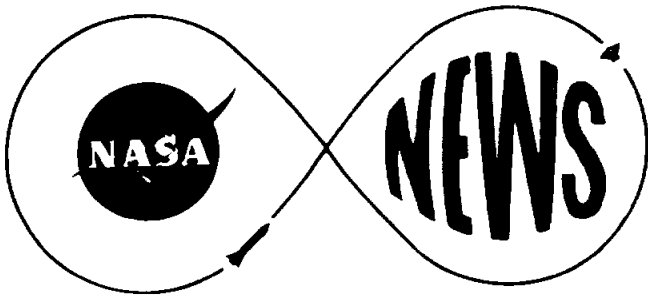
Dickson is in the Structural Test Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is Director of Apollo/Soyuz Dynamic Docking Testing.

He is a 1960 graduate of Virginia Polytechnic Institute with a BSEE degree.

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CHARLIE E. ROGERS, JR., HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

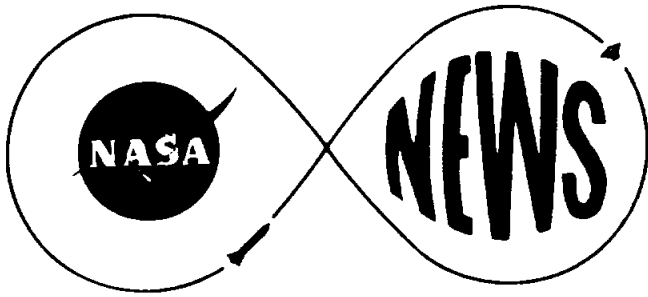
Charlie E. Rogers, Jr., of League City is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Rogers is Chief of the Machine Branch, Technical Services Division. His assignment for this joint United States-Soviet Union manned space mission is to provide support for the assembly and checkout of the ASTP docking simulator.

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GEORGE F. KOEPKE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

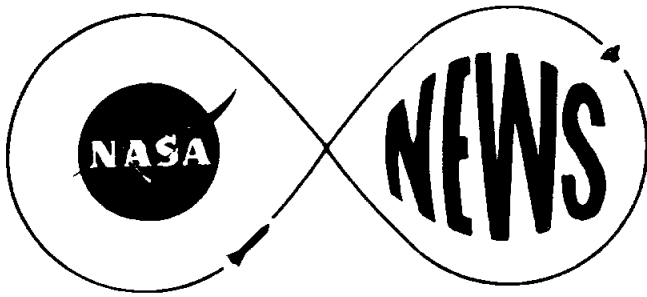
George F. Koepke of Oak Harbor, Ohio, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Koepke is a spacecraft test quality assurance supervisor in the Quality Assurance Division. His assignment for this joint United States-Soviet Union manned space mission is the docking system qualification test at JSC and in the USSR, and the flight docking module tests at JSC.

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DONALD F. HUGHES HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Donald F. Hughes of Havertown, Pennsylvania, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

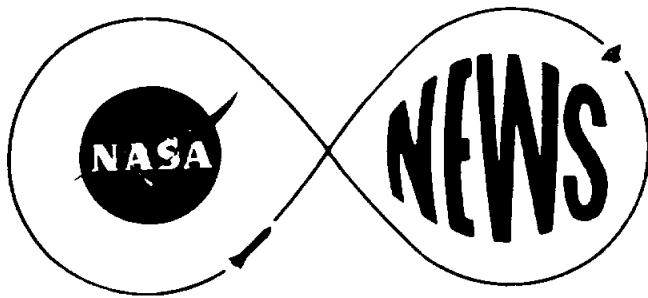
Hughes is in the Environmental Control and Life Support Systems Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is responsibility for the design and testing of the Command and Service Module and Docking Module environmental control systems. He also participates in the technical negotiations with the USSR specialists in the field of life support systems.

He is a 1955 graduate of Valley Forge Military Academy and a 1958 graduate of Lafayette College with a BSME degree.

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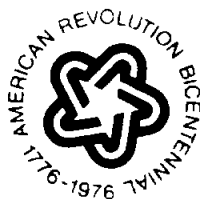
WALTER W. GUY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Walter W. Guy of Columbia, South Carolina, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

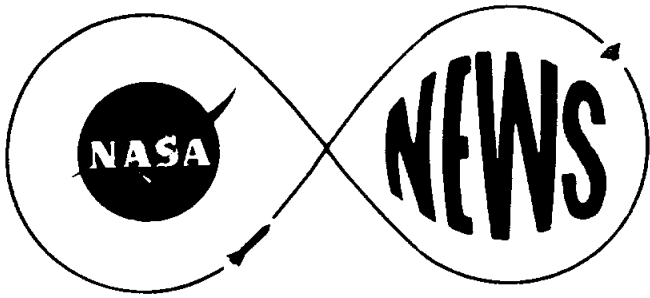
Guy is in Crew Systems Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is Chairman of ASTP Working Group 5 for Life Support Systems and Crew Transfer Operations.

He is a 1959 graduate of the University of South Carolina with a BSME degree and a 1968 graduate of Rice University with a MSME degree.

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JOHN H. LANGFORD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

John H. Langford of Horchton, Georgia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

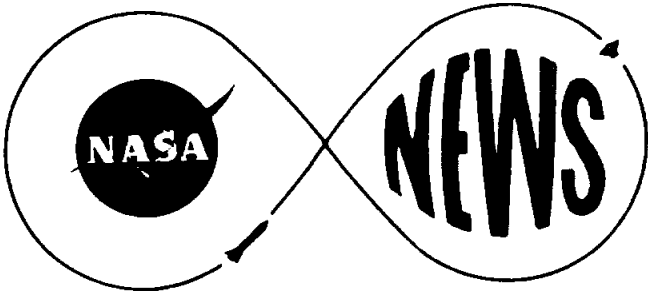
Langford is chief of the Spectroenvironments Section of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is project manager for ASTP Engineering and Development experiments.

He is a 1959 graduate of Georgia Institute of Technology with a degree in aeronautical engineering.

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JAMES A. LAWRENCE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

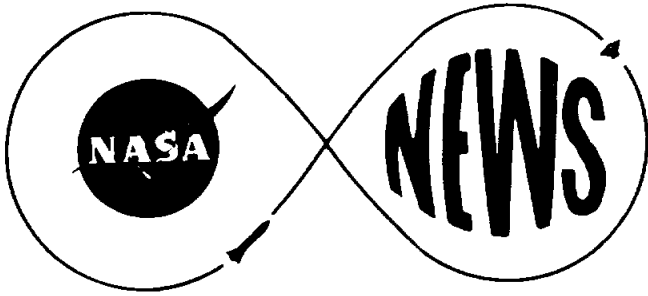
James A. Lawrence of Dillon, South Carolina, is part of the team of engineers, technicians and support personnel at the Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Lawrence is assistant chief of the Hybrid Computation and Simulation Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is dynamic docking testing systems and vehicle simulation.

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EUGENE A. CERNAN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Eugene A. Cernan of Bellwood, Illinois, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

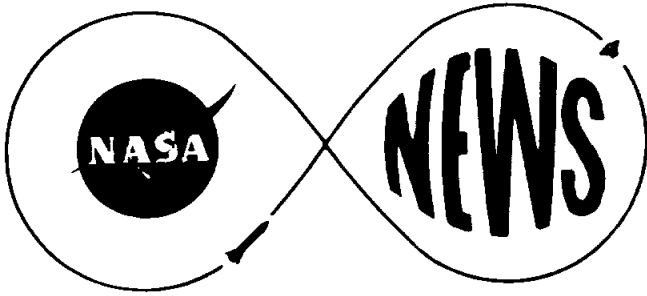
Cernan, Commander of Apollo 17 is now Special Assistant to the Apollo Spacecraft Program Office Manager. His assignment for this joint United States-Soviet Union manned space mission is Special Assistant for ASTP mission operations and government furnished equipment.

He is a 1956 graduate of Purdue University with a BS degree in electrical engineering.

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ARNOLD D. ALDRICH HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Arnold D. Aldrich of Lexington, Massachusetts, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Aldrich is Deputy Manager of the Apollo Spacecraft Program Office. His assignment for this joint United States-Soviet Union manned space mission is Deputy Manager of the Apollo Spacecraft Program.

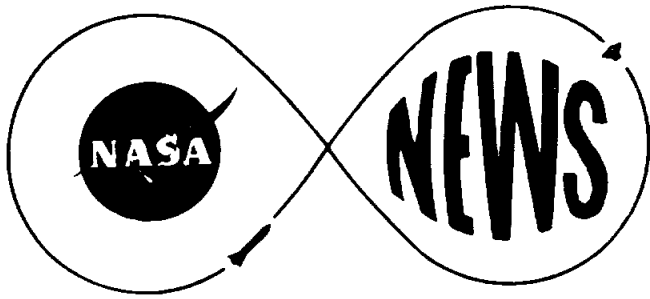
He is a 1959 graduate of Northeastern University with a BS degree in electrical engineering.

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GLYNN S. LUNNEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Glynn S. Lunney of Old Forge, Pennsylvania, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

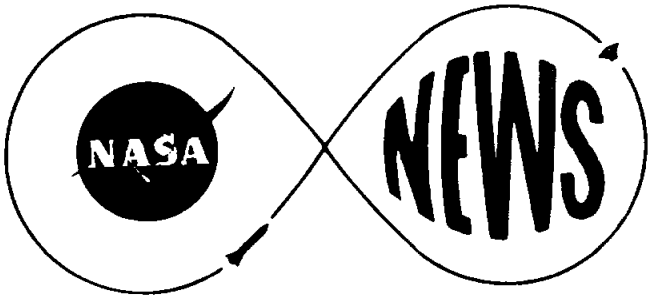
Lunney is Manager of the Apollo Spacecraft Program. His assignment for this joint United States-Soviet Union manned space mission is United States Technical Director for ASTP.

He is a 1958 graduate of the University of Detroit with a BS degree in Aeronautical Engineering.

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BETTY C. CORNETT HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Betty C. Cornett of Galena Park, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

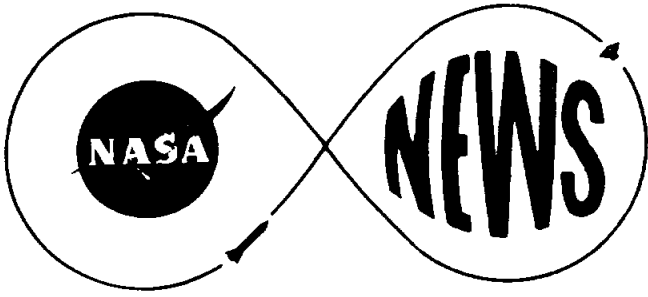
Cornett is secretary to the Apollo Spacecraft Program Office Manager. Her assignment for this joint United States-Soviet Union manned space mission is secretary to the ASTP United States Technical Director.

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ROBERT D. WHITE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert D. White of Waco, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

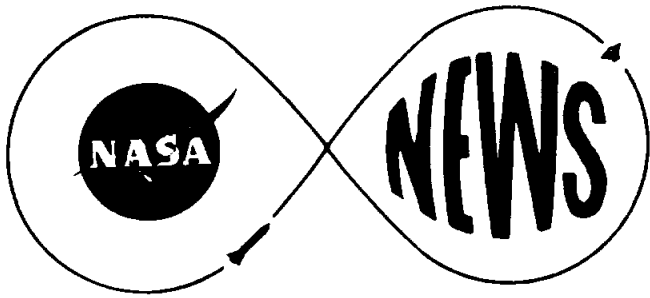
White is manager of the Mechanical Systems Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is chairman of Working Group 3 for designing and developing the docking systems for Apollo and Soyuz.

He is a 1962 graduate of the University of Texas with a BSME degree.

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THOMAS O. ROSS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Thomas O. Ross of North Little Rock, Arkansas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

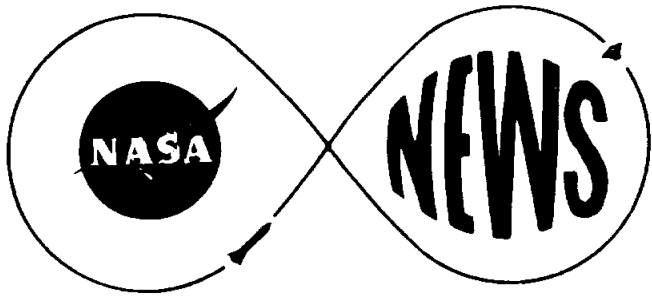
Ross is in the Spacecraft Design Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is design of the docking mechanism and establishment of interface documentation control.

He is a 1955 graduate of the University of Arkansas with a BSME degree.

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LOUIS E. HACKNEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

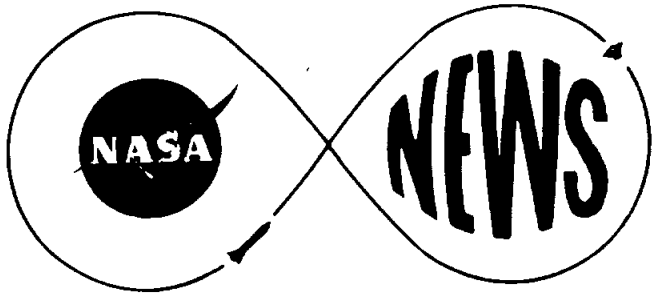
Louis E. Hackney of Delavan, Illinois, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Hackney is in the Simulation Branch of Data Systems and Analysis. His assignment for this joint United States-Soviet Union manned space mission is maintenance of ASTP flight crew simulators used in training the astronauts for the mission.

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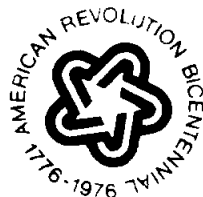
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PAUL E. SHACK HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

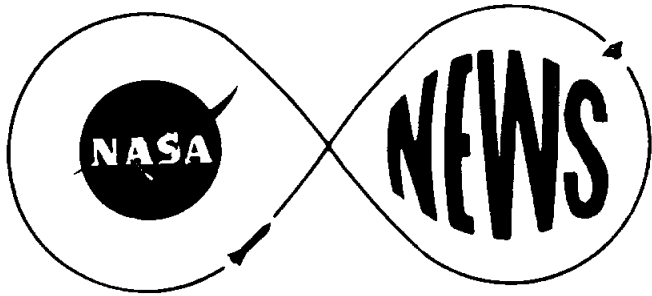
Paul E. Shack of Pittsburg, Pennsylvania, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Shack is in the Flight Telecommunications Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is as an audio system test specialist and headset engineer for ASTP.

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ROBERT W. FRICKE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert W. Fricke of Kansas City, Missouri, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

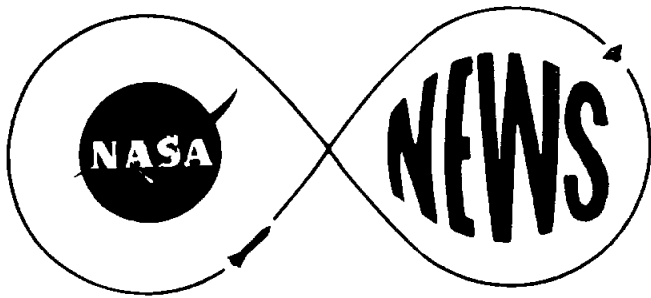
Fricke is a technical writer/editor in the Systems Requirements and Government Furnished Equipment Branch of Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is Flight Operations Management Room log manager for ASTP.

He is a 1957 graduate of Indiana University with a general business administration degree.

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JAMES R. JAAX HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

James R. Jaax of Wichita, Kansas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

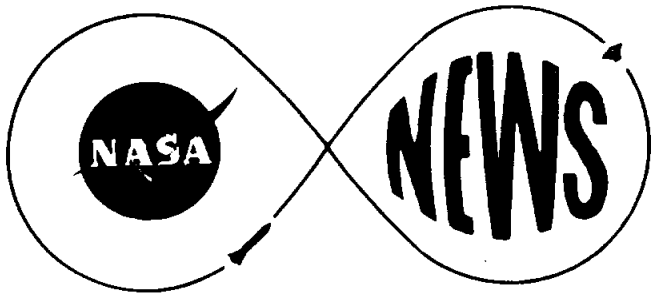
Jaax is in Systems Engineering Branch of Crew Systems Division. His assignment for this joint United States-Soviet Union manned space mission is the design of the Docking Module environmental control system and a member of ASTP Working Group Five for life support and crew transfer provisions.

He is a 1965-67 graduate of Kansas State University with BS and MS degrees in mechanical engineering.

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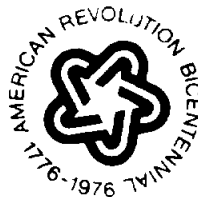
JAMES R. TRACY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

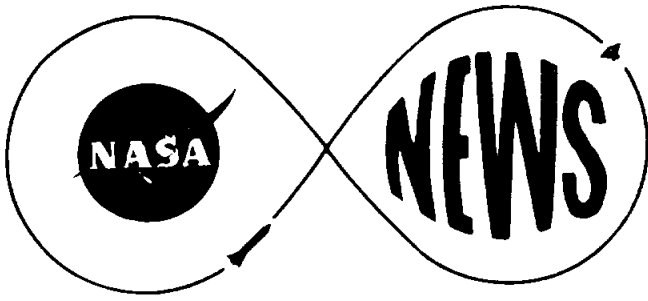
James R. Tracy of Minneapolis, Minnesota, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Tracy is a quality assurance specialist in the Quality Assurance Division. His assignment for this joint United States-Soviet Union manned space mission is docking hardware qualification testing and docking module thermal vacuum testing.

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WILLIAM C. DOUGLAS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

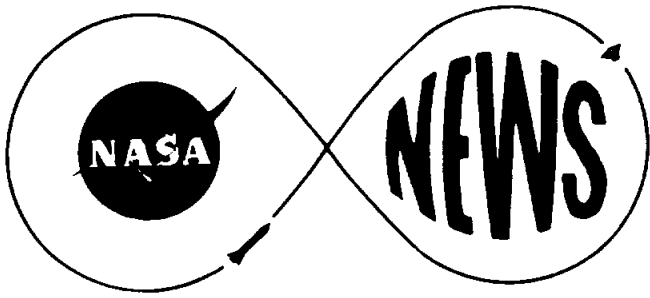
William C. Douglas of Waco, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Douglas is in the Television Office of Center Operations. His assignment for this joint United States-Soviet Union manned space mission is administration of television for TV returning to earth from the orbiting Apollo-Soyuz spacecraft.

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OTHO C. LINDSEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

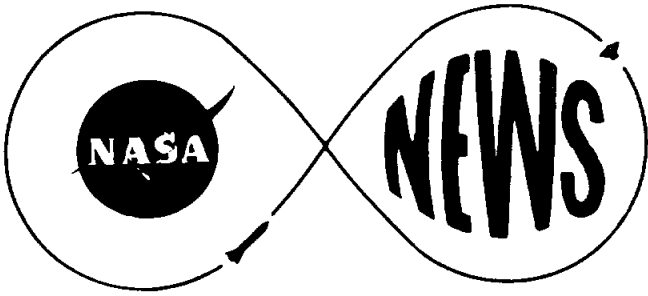
Otho C. Lindsey of Sidney, New York, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Lindsey is in the System Safety Branch of the Safety Division. His assignment for this joint United States-Soviet Union manned space mission is responsibility for crew safety and for all safety analysis for Apollo and Soyuz.

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GEORGE E. GRIFFITH HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

George E. Griffith of Houston is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

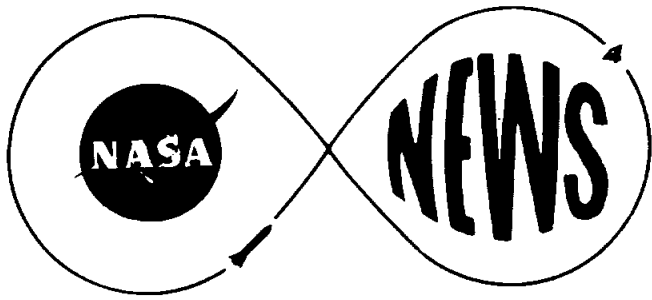
Griffith is Chief of the Structural Test Branch in Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is supervising all JSC dynamic docking tests for ASTP.

He is a 1944 graduate of the University of Alabama with a BS degree in civil engineering.

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LARRY P. RATCLIFF HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Larry P. Ratcliff of Jackson, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

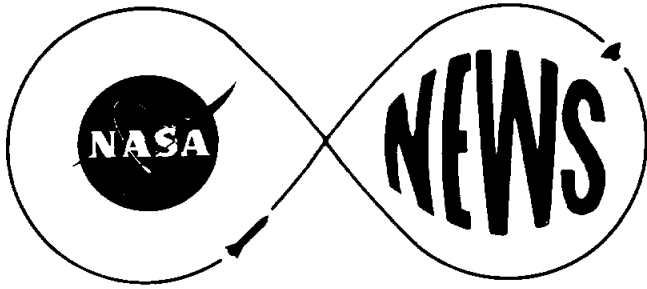
Ratcliff is in the Engineering Design Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is docking mechanism design for ASTP and mechanical interface control.

He is a 1962 graduate of Mississippi State University with a BSME degree.

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JOSEPH E. MECHELAY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Joseph E. Mechelay of Brooklyn, New York, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

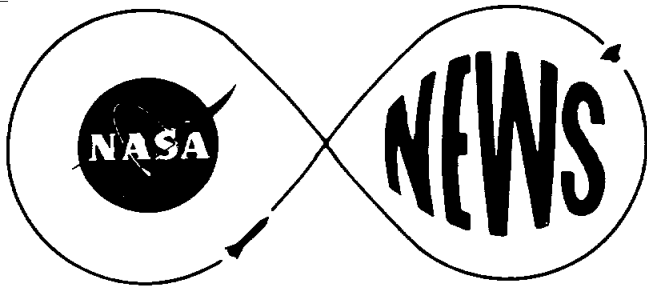
Mechelay is in the Test Division Instrumentation Integration Branch of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is mission evaluation manager for ASTP.

He is a 1956 graduate of New York University with a BAE degree.

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ROBERT E. MUNFORD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert E. Munford of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

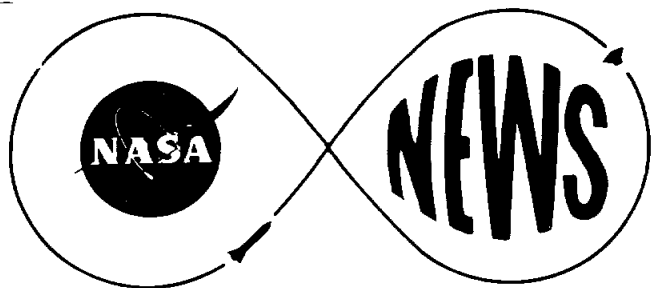
Munford is assistant chief of the Power and Distribution Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is electrical analysis manager for ASTP mission evaluation.

He is a 1959 graduate of Clemson University with a BS degree in physics.

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JIMMY D. BRADLEY HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

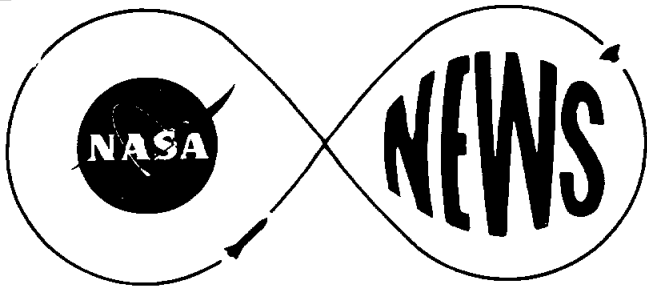
Jimmy D. Bradley of Fort Worth, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Bradley is a mechanical engineer in the Spacecraft Design Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is preliminary design work on the ASTP docking module and the dynamic docking test system.

He is a 1963 graduate of Southern Methodist University with a BSME degree.

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LARRY ARNIM HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Larry Arnim of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

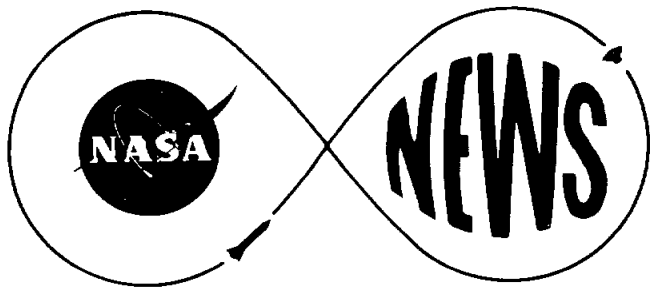
Arnim is a program analyst in the Configuration Management Branch of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is log manager in the flight operations management room for the ASTP mission.

He is a 1962 graduate of the University of Houston with a BS degree.

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GARY W. JOHNSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Gary W. Johnson of Covington, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

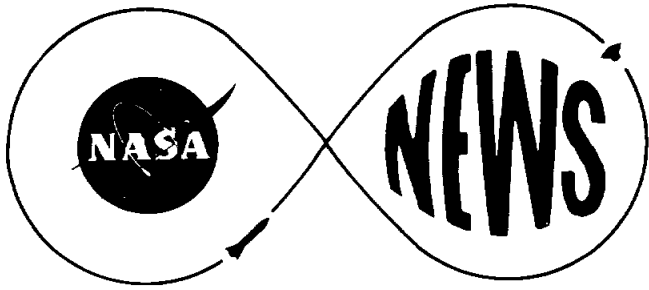
Johnson is head of the Equipment and Installation Section in the Power Distribution and Control Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is manager for the electrical and sequential subsystems for ASTP.

He is a 1964 graduate of Oklahoma State University with a BSEE degree.

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KENT D. CASTLE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Kent D. Castle of Logansport, Indiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

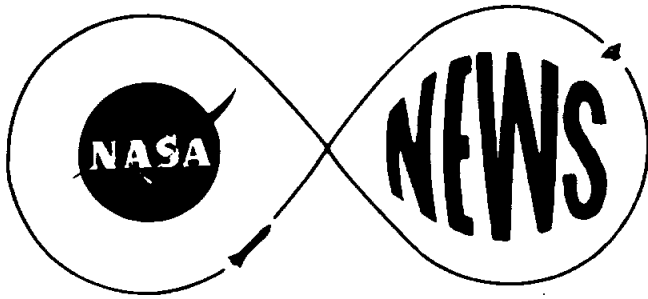
Castle is an electrical engineer in the Power Distribution and Control Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is project engineer on the ASTP Apollo command and service module electrical systems.

He is a 1961 graduate of Purdue University with an EE degree.

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CURTIS J. LEBLANC HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Curtis J. LeBlanc of Sorrento, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

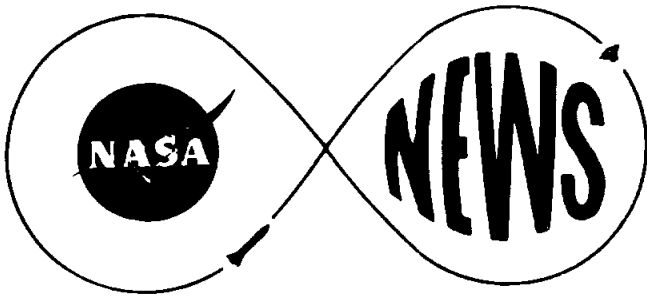
LeBlanc is experiment development manager in Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is experiment manager for the ASTP experiment on crystal growth (MA-028).

He is a 1961 graduate of Louisiana State University with a BSEE degree.

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EDWARD E. LATTIER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Edward E. Lattier of Natchitoches, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

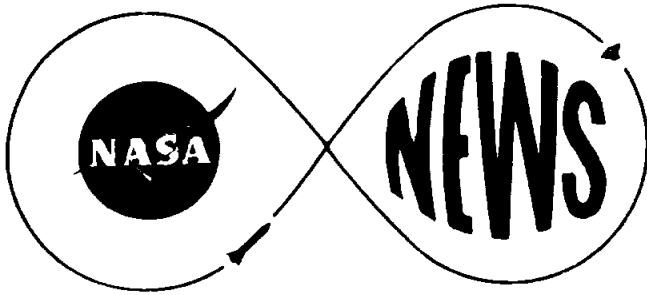
Lattier is a Communications and Instrumentation Systems engineer in the Tracking and Communications Development Division. His assignment for this joint United States-Soviet Union manned space mission is manager for docking module communications systems.

He is a 1956 graduate of Louisiana State University with a BSEE degree.

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CHARLES M. VIBBART HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Charles M. Vibbart of Tuscaloosa, Alabama, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

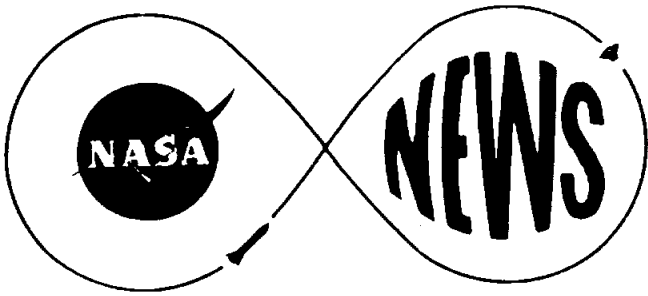
Vibbart is in the Structural Test Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is construction of simulator and conducting joint US/USSR docking systems dynamic tests for the ASTP mission.

He is a 1962 graduate of the University of Alabama with a BS degree.

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DAVID A. HAMILTON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

David A. Hamilton of Foley, Alabama, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

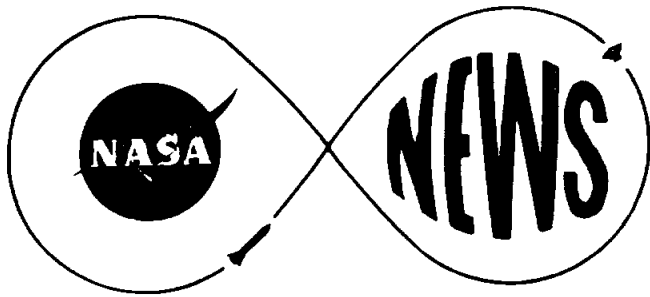
Hamilton is in the Structures Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is to determine the load carrying capability of the Apollo Command and Service Module/Docking Module and Soyuz vehicles.

He is a 1967 graduate of Auburn University with a BS degree in aeronautical engineering.

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BILLY B. NELSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

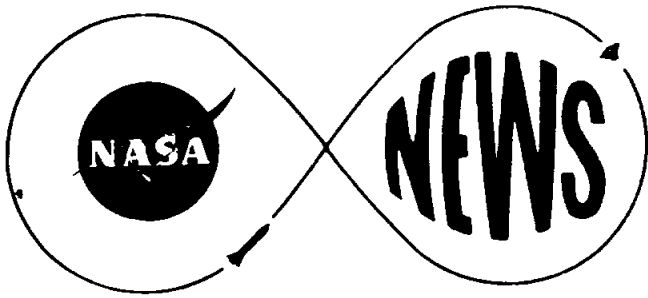
Billy B. Nelson of Idabel, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Nelson is an electronics technician in the Structural Test Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is for communications and data acquisition during ASTP.

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JAMES H. BOOKER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

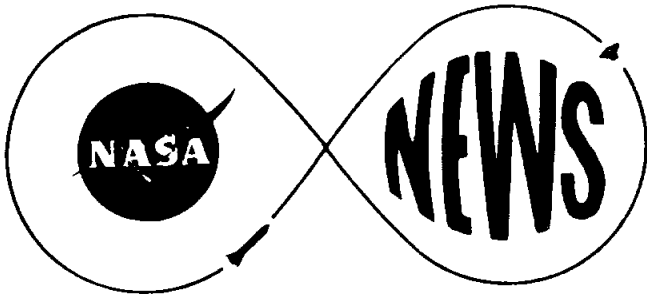
James H. Booker of Houston is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Booker is in the Test Division of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is to perform mission evaluation of the ASTP.

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DONALD C. WADE HAS PART IN JOINT APOLLO-SOYUZ FLIGHT IN JULY

Donald C. Wade of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

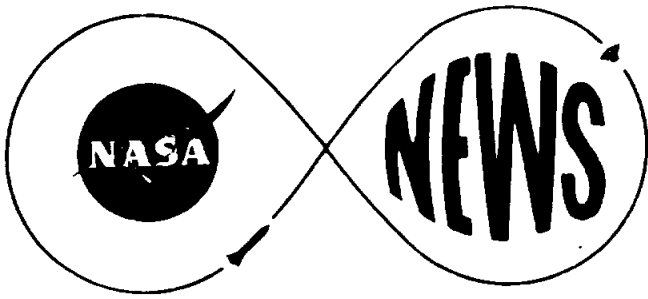
Wade is Assistant Chief of Structures and Mechanics Division, Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is Chairman of ASTP Working Group 3 for Docking System Design.

He is a 1956 graduate of the University of Texas, BS degree in aeronautical engineering and a 1962 graduate of Southern Methodist University with a MS degree in aeronautical engineering.

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CHESTER J. MEYERS HAS PART IN APOLLO-SOYUZ SPACE FLIGHT IN JULY

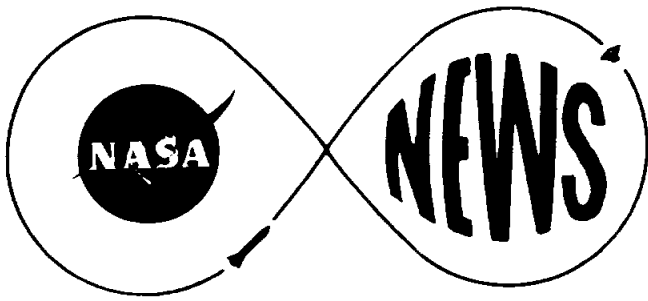
Chester J. Meyers of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Meyers is a mail and file clerk in the Program Administrative Office. His assignment for this joint United States-Soviet Union manned space mission is to provide clerical and secretarial support to the Flight Operations Management Room in the Mission Control Center during the flight of ASTP.

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CONNIE J. LENCZEWSKI HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

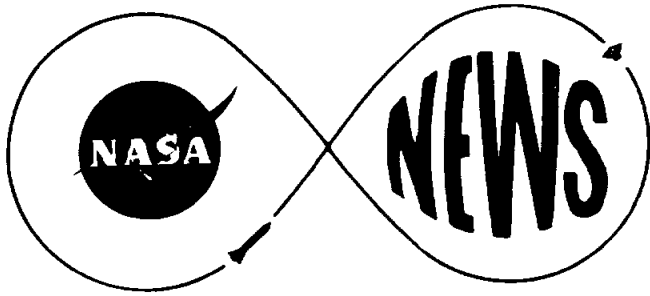
Connie J. Lenczewski of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Lenczewski is a secretary in the Apollo Spacecraft Program Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support to the Deputy Manager of the Apollo Spacecraft Program Office.

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ARTHUR R. BOOTH, JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

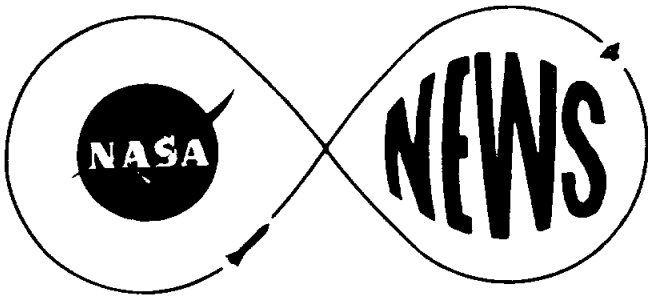
Arthur R. Booth, Jr. of Baytown, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Booth is facility contract manager of the Center Operations Directorate. His assignment for this joint United States-Soviet Union manned space mission is member of the team responsible for the development of the dynamic docking test system used to qualify the ASTP docking system.

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OLIN L. GRAHAM HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Olin L. Graham of Childress, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

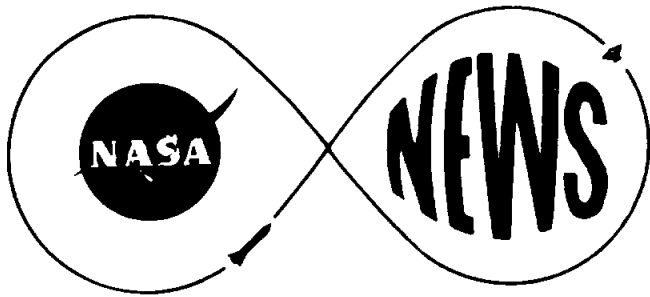
Graham is in the Tracking and Communications Development Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is as television systems engineer for ASTP.

He is a 1961 graduate of the University of Houston.

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KENNETH LAND HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Kenneth Land of San Angelo, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

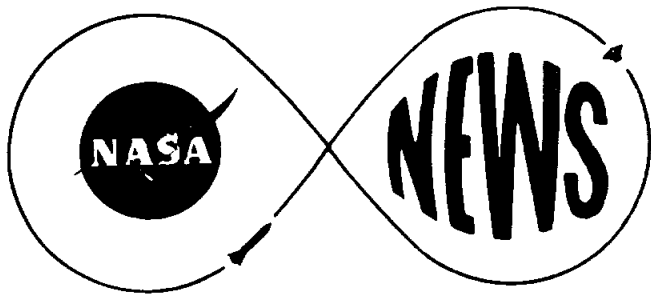
Land is in the Tracking and Communications Development Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is as a television systems engineer for ASTP.

He is a 1968 graduate of the University of Houston.

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CAROLYNNE J. GOREE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

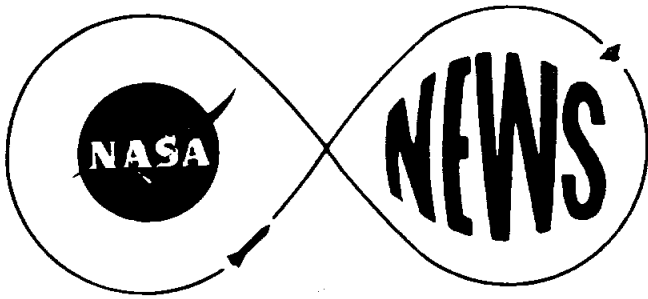
Carolynne J. Goree of Winnfield, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Goree is secretary to the chief of the Integration Division of the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is providing secretarial support for mass properties, operational data books and government furnished equipment for ASTP.

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JACK R. DELEONARDIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Jack R. DeLeonardis of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

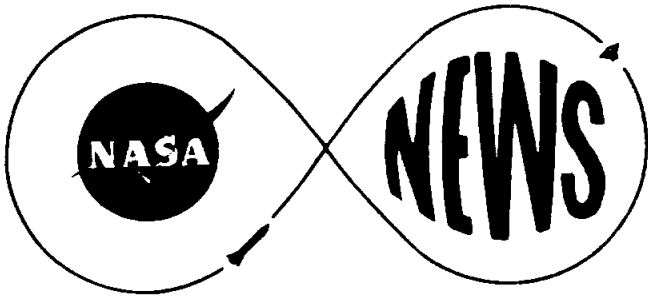
DeLeonardis is in the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is project engineer for crew compartment government and contractor furnished equipment and hardware.

He is a 1943 graduate of Mount St. Mary's with a BS degree.

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ROBERT F. GRAFE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert F. Grafe of Lucedale, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

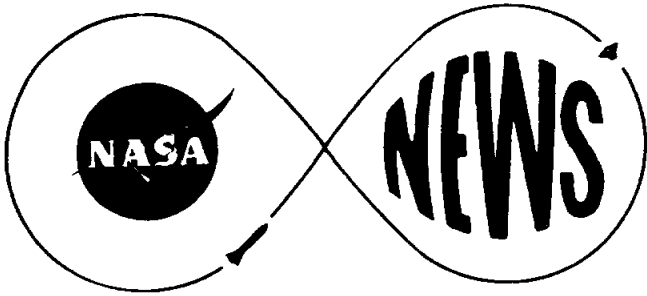
Grafe is in the Systems Engineering Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is environmental control system test specialist.

He is a 1962 graduate of Mississippi State University with a BSME degree.

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MEREDITH W. HAMILTON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Meredith W. Hamilton of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

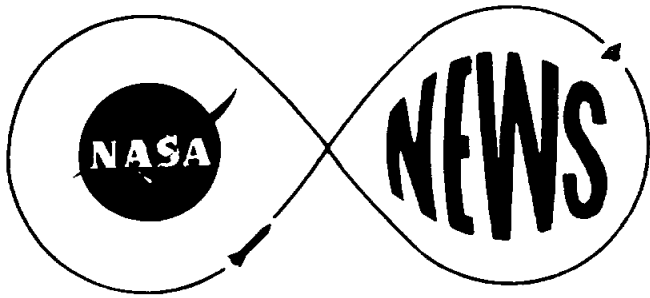
Hamilton is in the Electromagnetic Systems Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is project engineer for VHF/FM communications for ASTP.

He is a 1957 graduate of the University of Tennessee with a BSEE degree.

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W. C. PANTER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

W. C. Panter of Pikeville, Tennessee, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

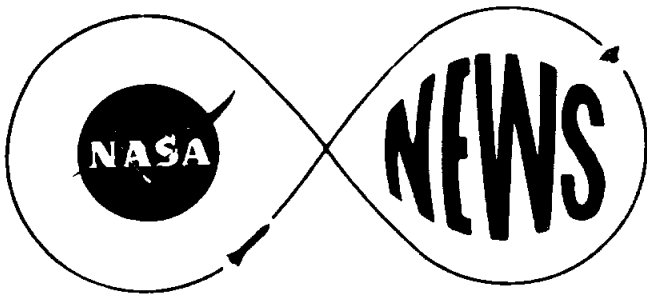
Panter is an electronic engineer in the Tracking Techniques Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is with ASTP Working Group 4 for communications and tracking.

He is a 1967 graduate of Tennessee Tech University with a BS degree.

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WELDON WALN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Weldon Waln of Lubbock, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

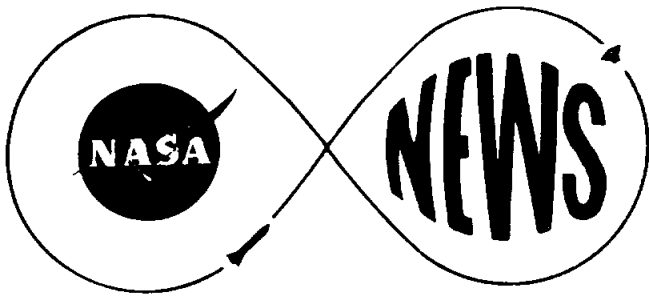
Waln is in the Integration Division of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is interface engineer for ASTP experiments and for stowage of equipment in the Apollo.

He is a 1949 graduate of Texas Tech University with a BSME degree.

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GLENN M. ECORD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Glenn M. Ecord of El Paso, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

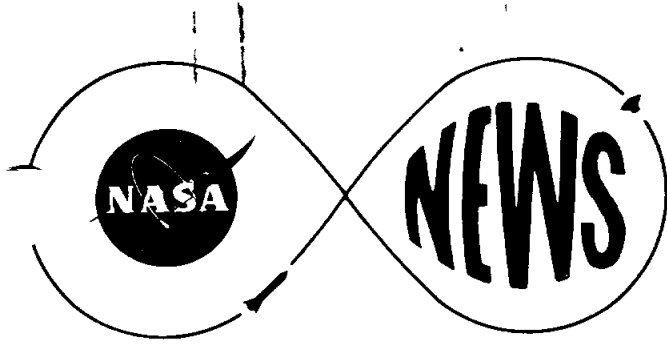
Ecord is in the Materials Technology Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is spacecraft pressure vessel technical monitor with responsibility for structural integrity and operational limitations of Apollo command and service module vessels.

He is a 1958 graduate of the University of Texas at El Paso with a BS degree in metallurgical engineering.

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ROBERT F. FLETCHER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert F. Fletcher of Horsey, Virginia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

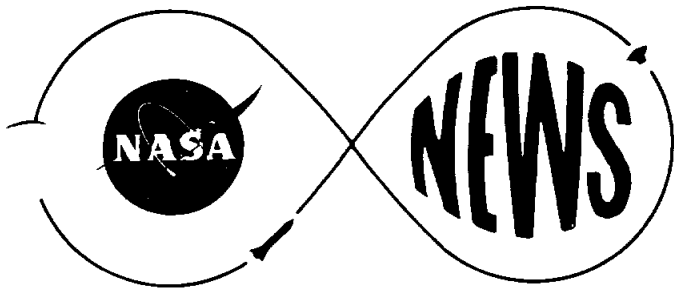
Fletcher is a technical editor of mission reports in the Program Operation Office. His assignment for this joint United States-Soviet Union manned space mission is technical editor of ASTP mission postflight report, and standby advisor on pad and inflight explosion.

He is a 1951 graduate of Virginia Tech with a BS degree in engineering.

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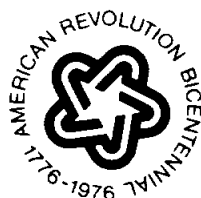
P. DONALD SMITH HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

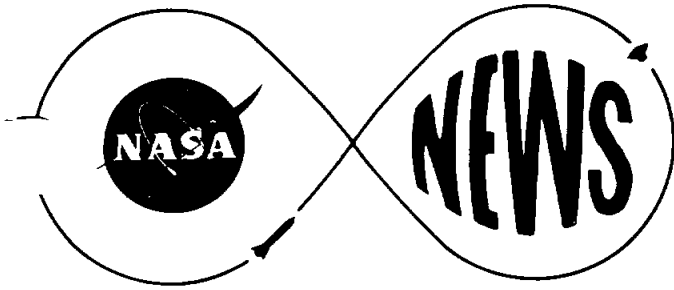
P. Donald Smith of Lebanon, Missouri, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Smith is in the project management office of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is structures subsystem manager for ASTP.

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ALLAN D. GIST HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Allan D. Gist of Spiro, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

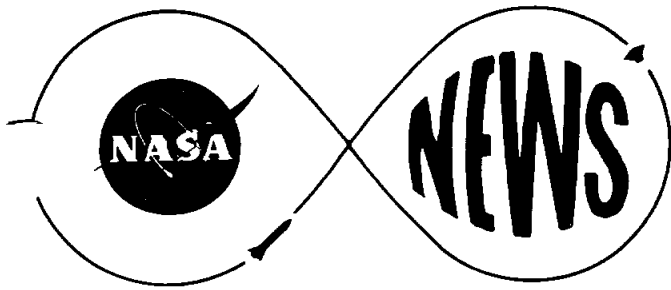
Gist is head of the Instrumentation and Data Systems Section in the Structural Test Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is data acquisition and processing for dynamic development and qualification of the ASTP docking system.

He is a 1962 graduate of the University of Arkansas with a BSEE degree.

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LOUIS W. MCFADIN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

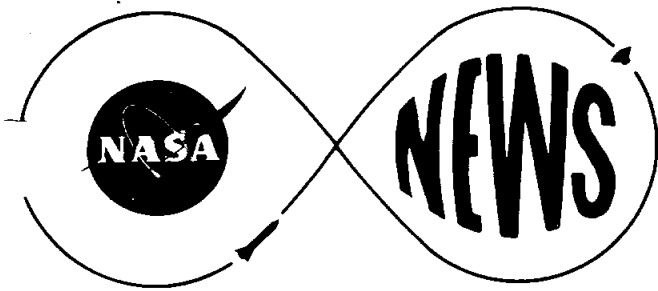
Louis W. McFadin of Tulsa, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

McFadin is in the Sensors Systems Development Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is experiment development manager for ASTP experiment MA-059, using Ultraviolet absorption to measure the concentration of atmospheric species, especially atomic oxygen and atomic nitrogen in the medium between the Apollo and the Soyuz spacecraft in orbit.

He is a 1963 graduate of Oklahoma State University with a BSEE degree.



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ROBERT L. ROBINSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Robert L. Robinson of Bastrop, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

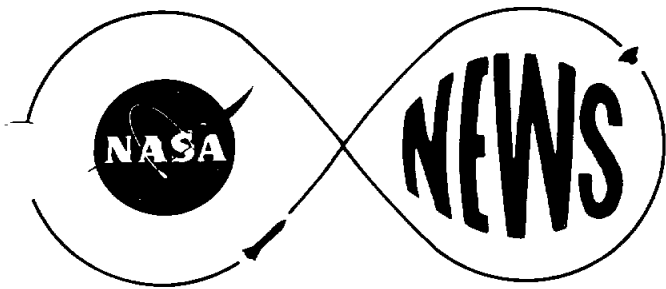
Robinson is in Auxillary Propulsion and Pyrotechnics of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is as member of the safety assessment team and a participant in the development of radio frequency explosives compatibility testing in Moscow, USSR.

He is a 1961 graduate of Louisiana Polytechnic Institute with a BSEE degree.

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R. ANN KELLY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

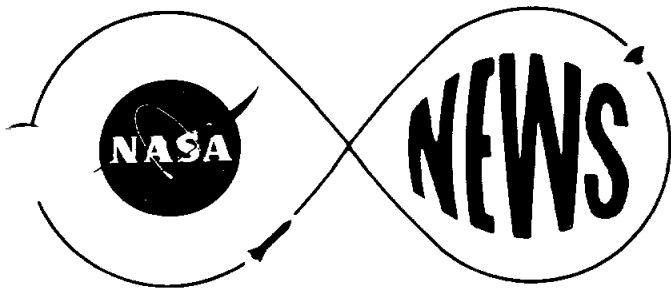
R. Ann Kelly of Jennings, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Kelly is a correspondence and records researcher analyst in the Program Administrative Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide support to the Flight Operations Management Room during ASTP mission periods.

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DONALYN EPSTEIN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Donalyn Epstein of Seabrook, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

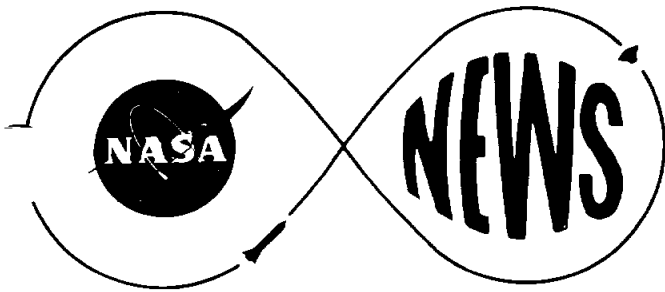
Epstein is a Russian translator in the Apollo Spacecraft Program Office. His assignment for this joint United States-Soviet Union manned space mission is to translate Russian to English and English to Russian for the ASTP mission.

He is a 1973 graduate of the University of Texas with a BA degree.

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BOBBY K. VERMILLION HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Bobby K. Vermillion of Frankston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

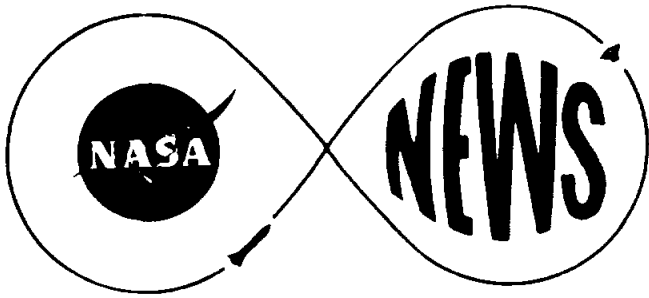
Vermillion is an electronic engineer in the Communications Evaluation Section of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is test director for compatibility testing of the voice communications, television and radio frequency tracking systems for the USA spacecraft and USSR spacecraft communications.

He is a 1962 graduate of Lamar University with a BSEE degree.

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RICHARD W. BRICKER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Richard W. Bricker of Muncie, Indiana is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

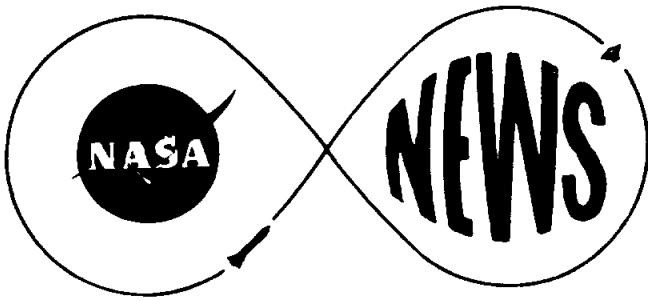
Bricker is head of the Structures Test Section of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is to support testing of the Apollo-Soyuz docking hardware and the development of sea dye marker for aid in recovery of Apollo at end of mission.

He is a 1949 graduate of Rose Polytechnic Institute with a BSME degree.

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EDWARD L. WEEKS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Edward L. Weeks of Jackson, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

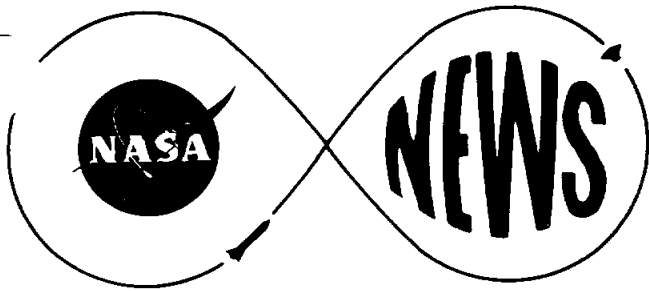
Weeks is in the Experiments Systems Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is experiment manager for X-Ray observation experiment that is scheduled to fly on the Apollo spacecraft.

He is a 1962 graduate of Mississippi College with a BS degree.

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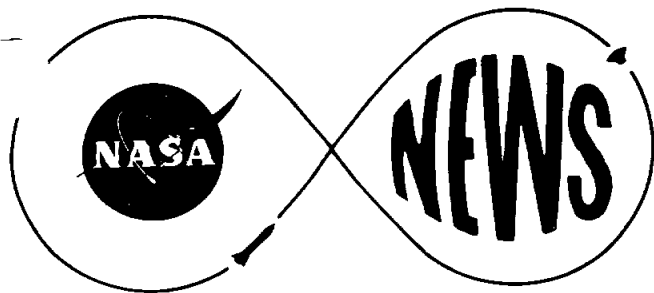
JOAN C. SALLIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Joan C. Sallis of Sumner, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Sallis is the division secretary of the Crew Systems Division of Engineering and Development. Her assignment for this joint United States-Soviet Union manned space mission is with Working Groups that coordinated negotiations of various aspects of the joint mission. She traveled with the working groups to the Soviet Union in April and spent two weeks in Moscow with the NASA group.

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WALTER D. POATES HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Walter D. Poates of Clinton, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

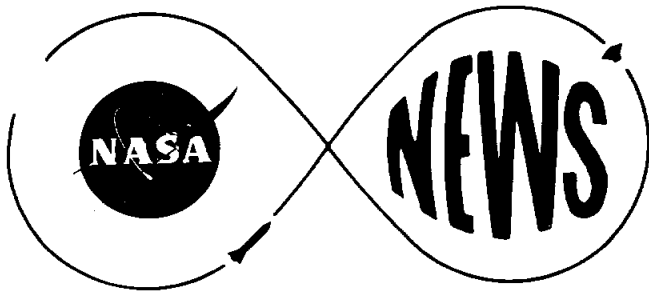
Poates is head of the Requirements and Analysis Section of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is supervision of the definition, documentation, planning of the ASTP post-flight data processing for engineering evaluation and scientific experiment analysis.

He is a 1956 graduate of Mississippi College with a BS degree.

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CHARLES M. HORSTMAN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

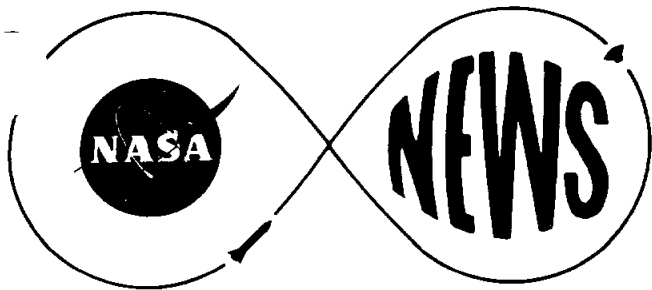
Charles M. Horstman of Delphos, Ohio, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Horstman is a network controller in the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is as a network controller in the Mission Control Center.

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LEE R. SCAMP HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Lee R. Scamp of Syracuse, New York, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

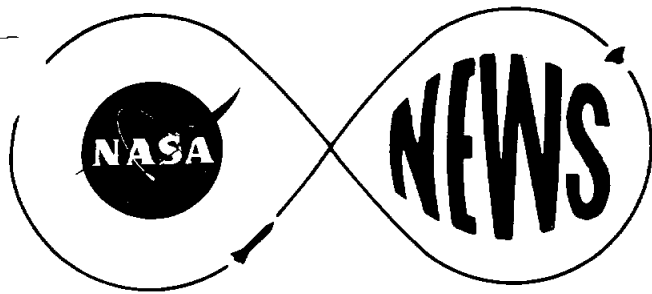
Scamp is in the Systems Engineering Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is television system engineering, integration and operation.

He is a 1963 graduate of Syracuse University with a BSEE degree.

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PAUL S. JASCHKE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Paul S. Jaschke of Neligh, Nebraska, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

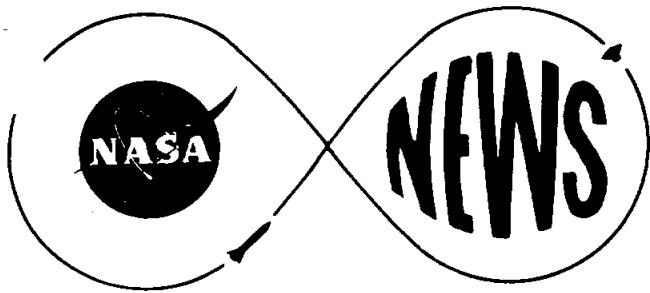
Jaschke is a flight systems engineer in the Apollo Spacecraft Program Office. His assignment for this joint United States-Soviet Union manned space mission is experiment manager.

He is a 1962 graduate of Wichita State University with a BSAE degree.

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GARY A COULTAS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Gary A. Coultas of Los Angeles, California, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

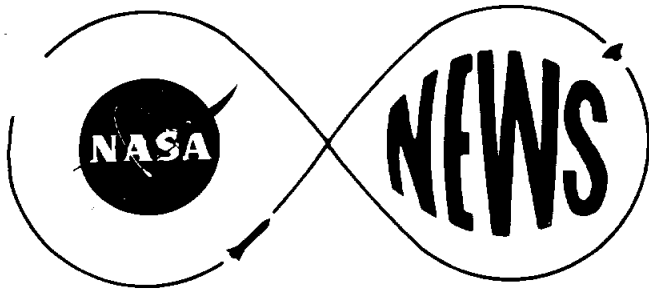
Coultas is manager of the Project Engineering Office in the Apollo Program Office. His assignment for this joint United States-Soviet Union manned space mission is manager of the Apollo spacecraft preparations for the mission.

He is a graduate of the University of Southern California with a BSME in 1958 and a MSME in 1962.

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JOHN B. WILLIAMS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

John B. Williams of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

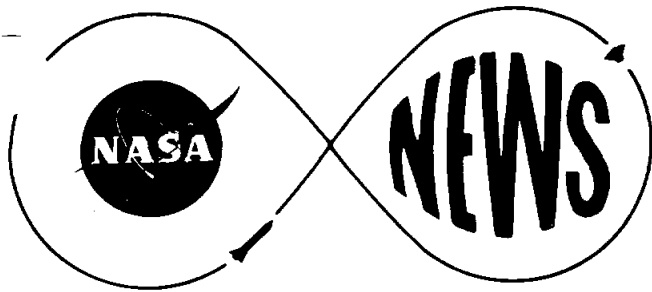
Williams is head of the Communication Systems Section of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is responsibility for all communications in the Mission Control Center.

He is a 1960 graduate of Valparaiso University with a BSEE degree.

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DONALD H. MC CORMICK HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Donald H. McCormick of El Dorado Springs, Missouri, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

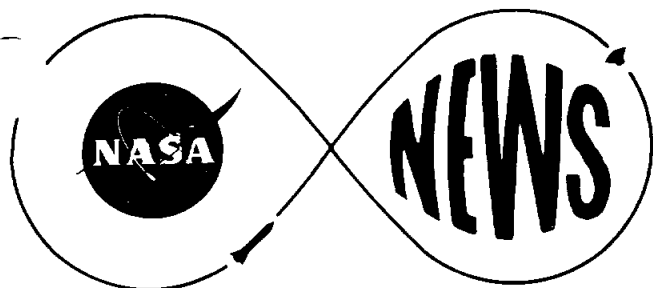
McCormick is a data system analyst in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is as a software (computer) system specialist.

He is a 1959 graduate of Central Missouri State College with a BS degree in mathematics and physics.

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BARNEY H. LEACH HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Barney H. Leach of Epps, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

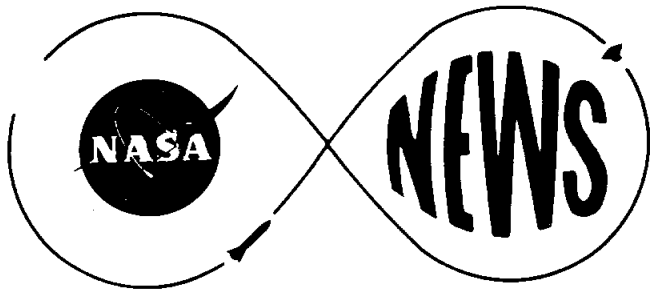
Leach is a data system analyst in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is to monitor ASTP software (computer program) development.

He is a 1959 graduate of Louisiana Tech University with a BS degree in mathematics.

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ROCKY DUNCAN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

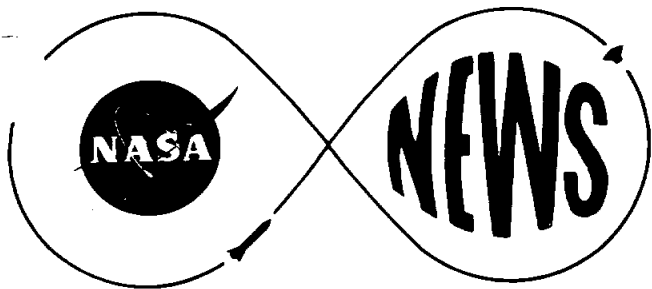
Rocky Duncan of Alexandria, Louisiana, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Duncan is in the Mission Intergration Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is the Ultra Violet Absorption experiment that will be used to measure the concentration of atmospheric species, especially atomic oxygen and atomic nitrogen, by the UV absorption and resonance scattering spectroscopy in the medium between the Apollo and Soyuz spacecraft.

He is a 1964 graduate of Louisiana State University with a degree in mathematics.



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FREDERICK NAU JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Frederick Nau, Jr. of Merrick, New York, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

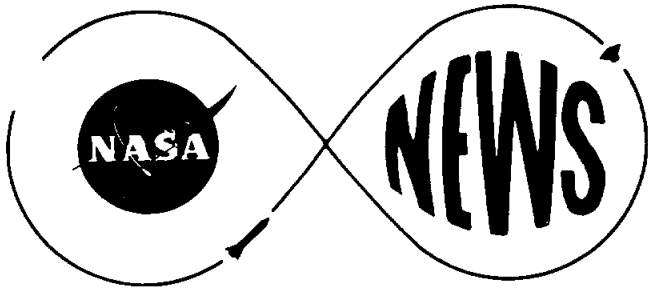
Nau is a supervisory mathematician in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is computer support for radiation analysis.

He is a 1956 graduate of Hofstra University with a BA degree in mathematics.

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BURL G. KIRKLAND HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Burl G. Kirkland of Lufkin, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

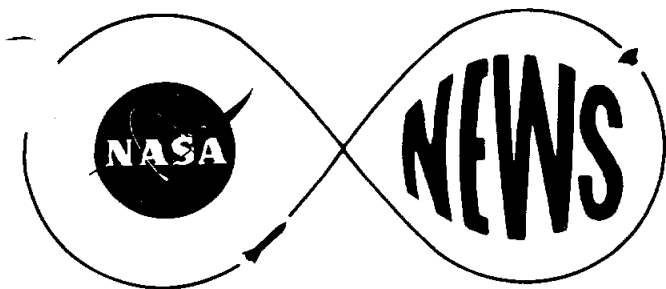
Kirkland is a data distribution center monitor in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is on the Data Reduction Complex/data management team.

He is a 1960 graduate of Stephen F. Austin State University with a BS degree in physics.

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B. F. MC CREARY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

B. F. McCreary of Paducah, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

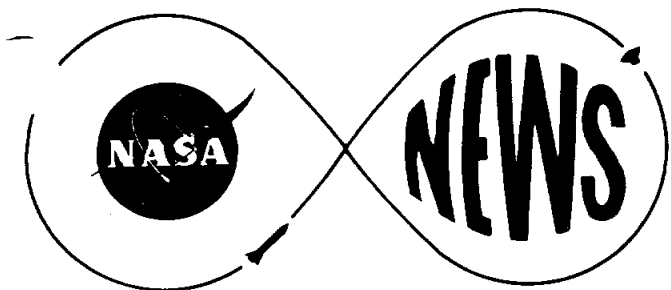
McCreary is a data analyst in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is project manager for post-flight data processing requirements.

He is a 1957 graduate of McMurry College with a BA degree.

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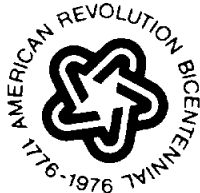
WILLIAM R. LACY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

William R. Lacy of Wichita Falls, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

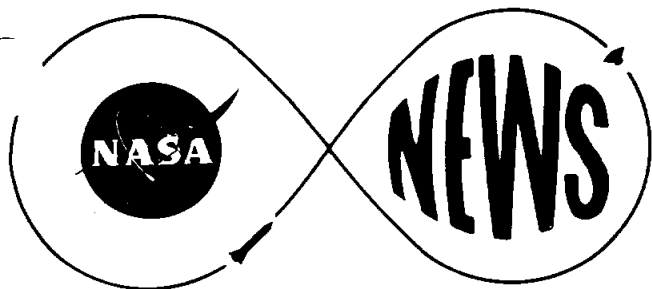
Lacy is a data requirements and analysis project engineer in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is development and implementation of digital and analog data processing plans for preflight readiness testing by NASA and contractor primary investigators.

He is a 1962 graduate of Texas Tech University with an MS degree in mathematics.

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ERVIN O. GRICE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Ervin W. Grice of Angleton, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

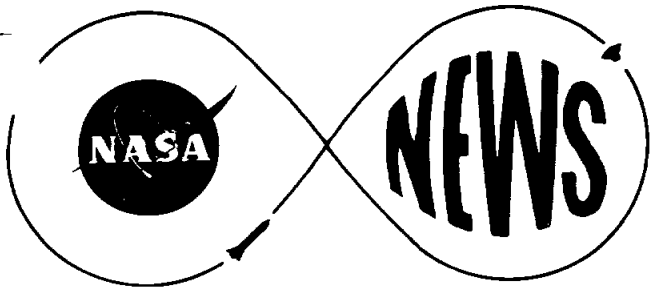
Grice is a data analyst in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is as a software (computer) program system specialist.

He is a 1967 graduate of Prairie View A&M University with a BS degree.

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JOHN J. FLYNN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

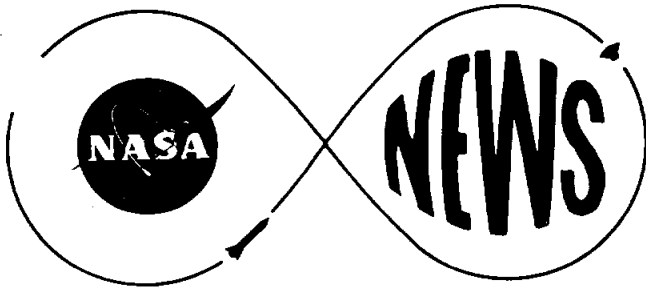
John J. Flynn of Kilrush, Clare County, Ireland, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Flynn is a quality assurance specialist in the Spacecraft Test Control Branch, of the Safety, Reliability and Quality Assurance Division. His assignment for this joint United States-Soviet Union manned space mission is the responsibility for assuring that the materials, equipment, and services for the Docking Module meet all quality standards for flight hardware during testing at JSC.

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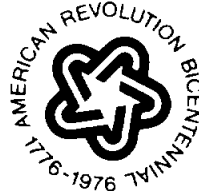
ALVA C. HARDY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Alva C. Hardy of Erick, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

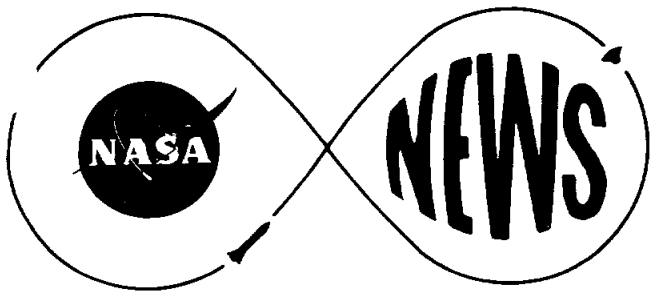
Hardy is a physicist in the Scientific Computing Branch of the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is radiation analysis.

He is a 1962 graduate of Southwestern State College, with a BS degree.

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ERNEST L. RANDALL HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Ernest L. Randall of Oklahoma City, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

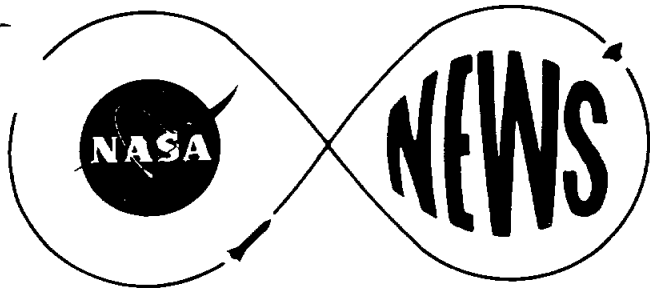
Randall is head of the Configuration Control Section of the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is director of support operations for the Mission Control Center Spacecraft Tracking and Data Network.

He is a 1957 graduate of East Central University with a BS degree in chemistry.

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RICHARD G. DORMAN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Richard G. Dorman of Oklahoma City, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

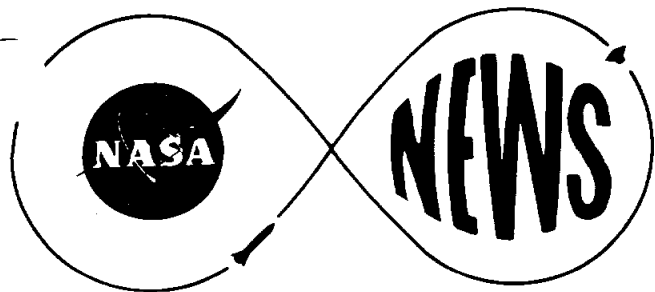
Dorman is a systems engineer in the Ground Data System Division of Flight Operations. His assignment for this joint United States-Soviet Union manned space mission is systems support.

He is a 1961 graduate of Central State College with a degree in mathematics.

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BARBARA E. BULOT HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

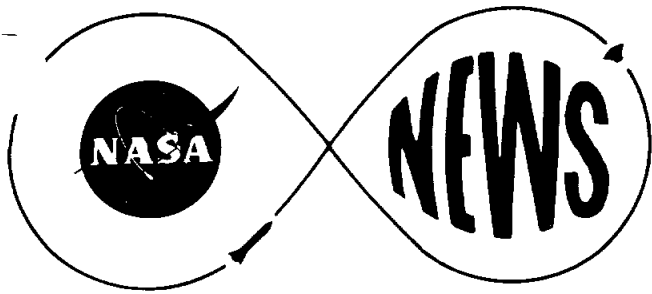
Barbara E. Bulot of Bacliff, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Bulot is a secretary in the Data Processing Branch of Ground Data Systems Division. Her assignment for this joint United States-Soviet Union manned space mission is to provide typing support for ASTP.

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ROBERT J. WARD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

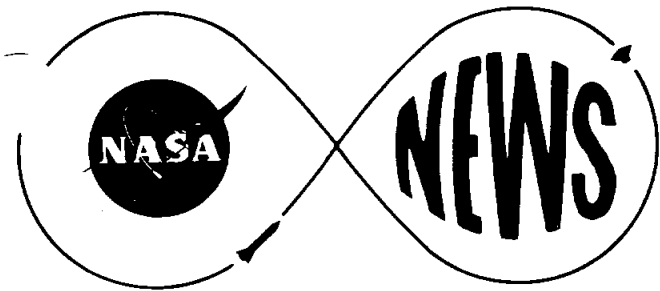
Robert J. Ward of Seabrook, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Ward is an aerospace engineer for Flight Systems Test in the Program Operations Anomaly Office. His assignment for this joint United States-Soviet Union manned space mission is resolution of anomaly and failure investigations for ASTP.

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ONEIL MCCAFFERTY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Oneil McCafferty of Huntsville, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

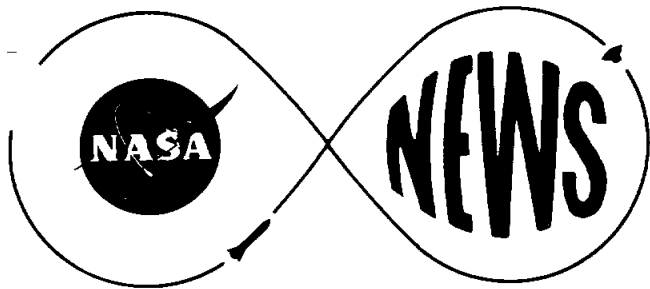
McCafferty is in the Mission Integration Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is attitude analysis for scientific experiments on ASTP.

He is a 1957 graduate of Sam Houston State University with a BS degree.

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JESSE T. ADKINS, JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

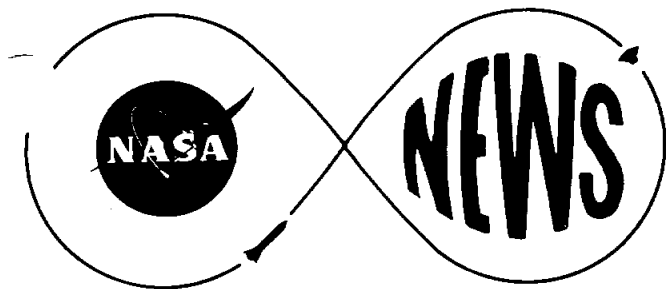
Jesse T. Adkins, Jr. of Stafford Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Adkins is a mechanical engineering technician in the Sheetmetal and Model Branch of Technical Service Division. His assignment for this joint United States-Soviet Union manned space mission is supervising and fabricating the ASTP docking test system here at the Johnson Space Center.

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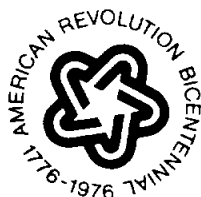
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MARY A. MARSH HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

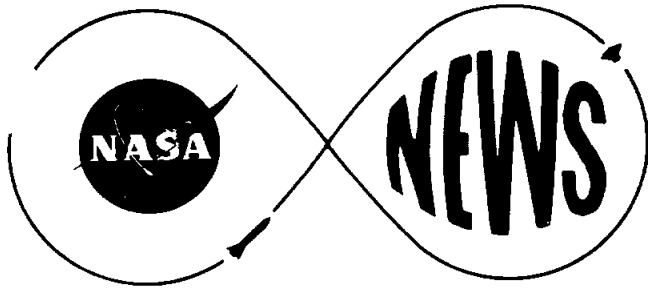
Mary A. Marsh of Dickinson, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Marsh is a secretary in the System Requirements and GFE Branch of the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support in the areas of Operational Data Book updates, stowage list updates, Mission Redlines, etc. for the ASTP mission.

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R. HARRY ST. JOHN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

R. Harry St. John of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

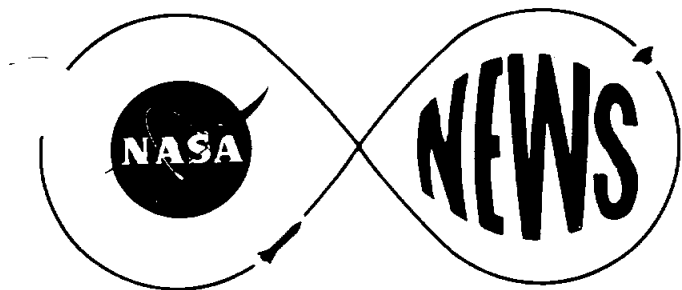
St. John is project manager for Shuttle engineering simulations in the Hybrid Computation and Simulation Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is project manager of the dynamic docking test simulations for ASTP hardware of the USA and USSR.

He is a 1969 and 1974 graduate of the University of Houston with BSEE and MBA degrees.

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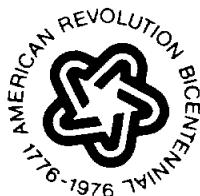
GILBERT I. GOOD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Gilbert I. Good of Stony Brook, New York and El Paso, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

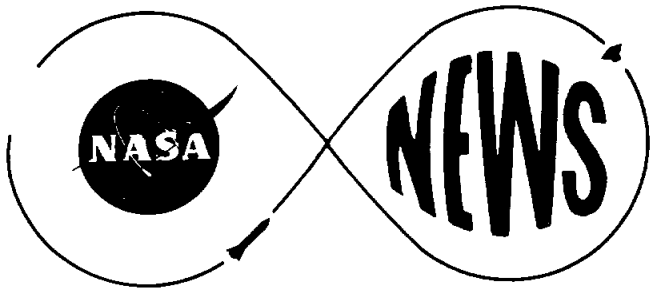
Good is in the Environmental Test Branch of the Program Operations Office. His assignment for this joint United States-Soviet Union manned space mission is environmental test engineer for ASTP.

He is a 1960 graduate of Texas Western College (UTEP) with a BS degree in physics.

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WILLIAM M. SPEIER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

William M. Speier of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Speier is in the Systems Engineering Office of the Apollo Spacecraft Program Office. His assignment for this joint United States-Soviet Union manned space mission is systems engineer for electrical systems and experiment compatibility with Apollo, plus responsibility for Apollo-Soyuz pyrotechnic safety and total system electromagnetic compatibility.

He is a 1954 graduate of St. Mary's University with a BS degree in physics.



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JOHN W. BORMANN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

John W. Bormann of New Braunfels, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

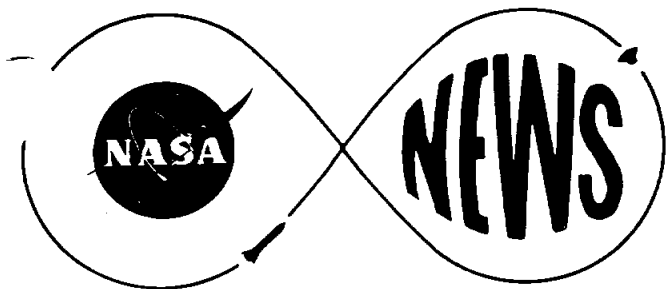
Bormann is a data analyst in the Data Processing Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is responsibility for ground command software (computer programs) and its interface with the systems onboard the Apollo spacecraft.

He is a 1966 graduate of Southwest Texas State University with a BS degree.

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GEORGE L. RICHESON, JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

George L. Richeson, Jr. of Kerrville, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

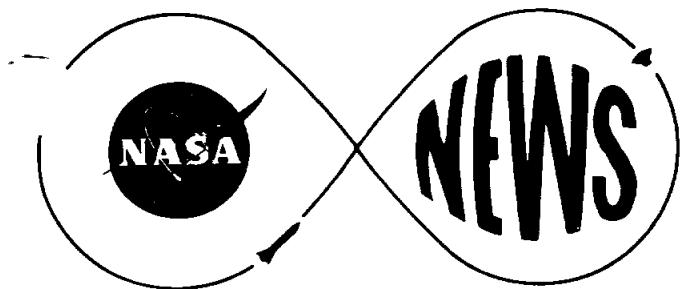
Richeson is a systems analyst in the Operations Integration Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is to test the ASTP remote site command program.

He is a 1964 graduate of Baylor University with a BS degree.

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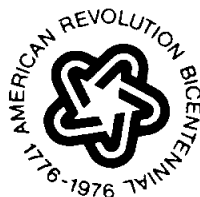
RONNY H. MOORE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Ronny H. Moore of Valley Mills, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

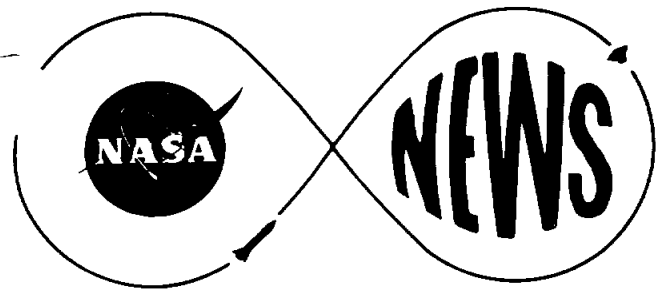
Moore is an aerospace engineer in the Mission Integration Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is general mission planning and real-time rendezvous support.

He is a 1966 graduate of the University of Texas at Arlington with a BS degree in aerospace engineering.

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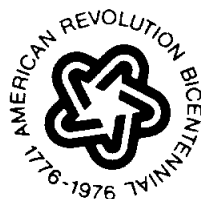
GEORGE W. SANDARS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

George W. Sandars of Taft, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

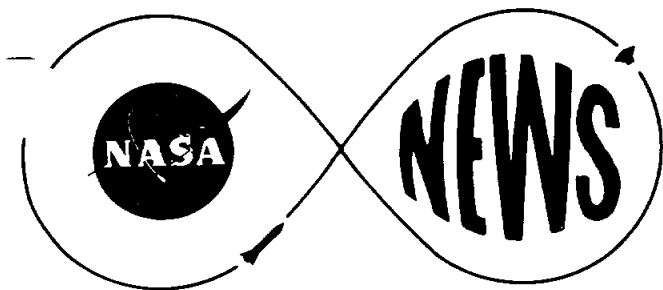
Sandars is in the Structures Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is structural sub-system manager for the Apollo Command Module, Service Module, service module/docking module adapter and the Docking Module that is to be used for transfers between the Apollo and Soyuz.

He is a 1960 graduate of Texas A&M with a BSME degree.

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CHARLES R. RITCHIE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

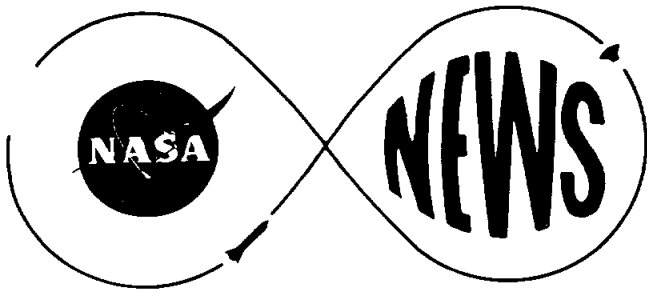
Charles T. Ritchie of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Ritchie is a communications specialist in the Systems Engineering Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is as a communications engineer.

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LOTTIE R. GREENWOOD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

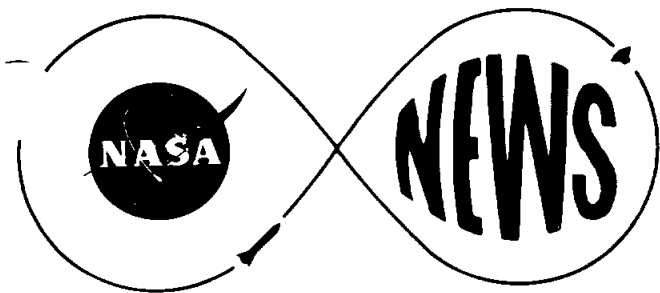
Lottie R. Greenwood of West Texas City, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Greenwood is secretary of the Systems Engineering Branch in the Data Systems and Analysis Directorate. Her assignment for this joint United States-Soviet Union manned space mission is to support engineers that provide the communications to and from the spacecraft and tracking stations, including TV and telemetry.

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E. LOUISE HAMILTON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

E. Louise Hamilton of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

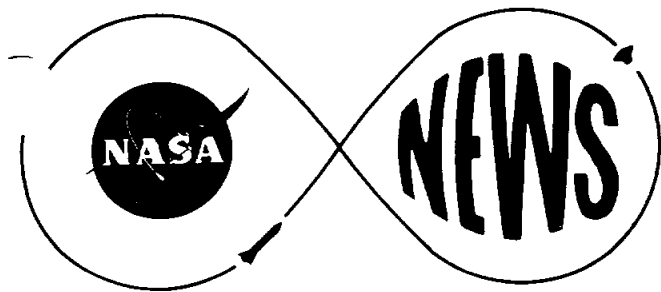
Hamilton is a secretary in the Systems Engineering Branch of the Ground Data Systems Directorate. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support for the flight.

She is a 1939 graduate of Texas Women's University with a BS degree.

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MARLAND WILLIAMSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Marland Williamson of San Marco, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

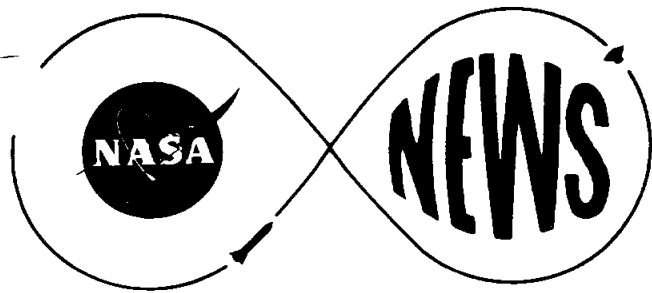
Williamson is an engineer in the Guidance and Dynamics Branch of Mission Planning and Analysis Division. His assignment for this joint United States-Soviet Union manned space mission is to provide separation and recontact analysis for the Apollo and Soyuz spacecraft during the mission.

He is a 1964 graduate of Southwest Texas University with a BS degree.

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ROBERT S. HARRIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

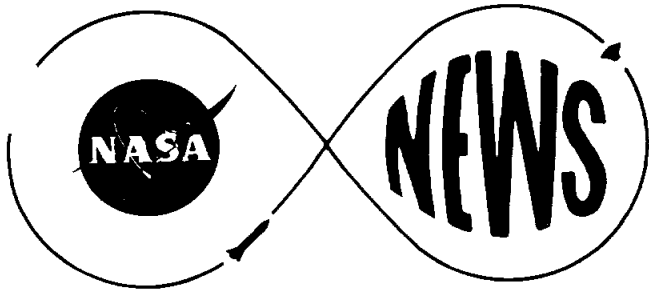
Robert S. Harris of Rose Hill, Virginia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Harris is in the Thermal Technology Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is manager of the ASTP thermal control subsystem.

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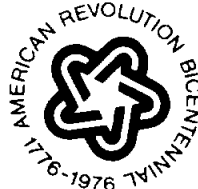
WILLIAM R. CHASE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

William R. Chase of Norfolk, Virginia, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

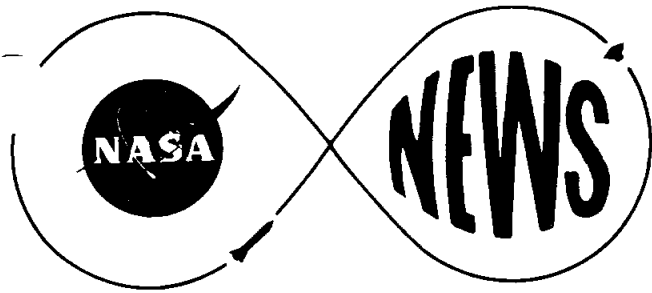
Chase is deputy chief of Operations Integration Branch of Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is Mission Control Center support director.

He is a 1959 graduate of Rice University with a BSEE degree.

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LOIS L. MILLER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

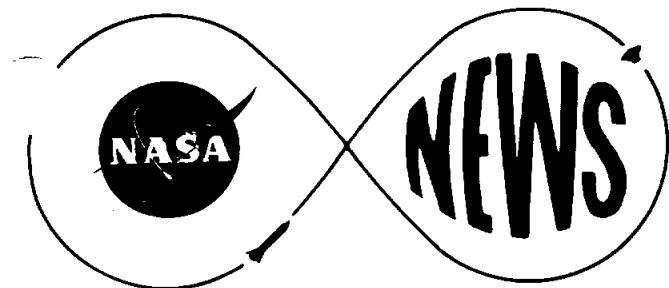
Lois L. Miller of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Miller is secretary of the Systems Support and Development Branch of Institutional Data Systems Division. Her assignment for this joint United States-Soviet Union manned space mission is assisting in the preparation and distribution of documents related to the Central Computing Facility support of ASTP, and coordinating arrangements for ASTP related conferences and meetings.

She is a 1974 graduate of San Jacinto Jr. College with an AA degree, and is a student at the University of Houston.



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KENNETH A. YOUNG HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Kenneth A. Young of Austin, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

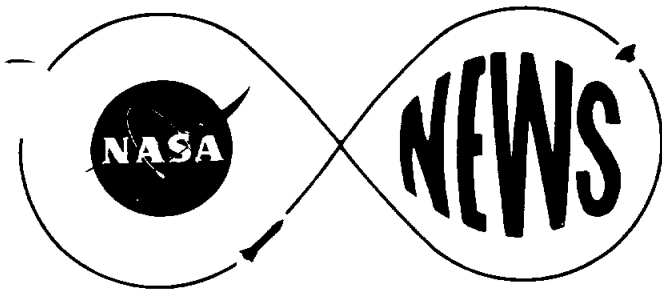
Young is head of the Orbital Design Section in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is project manager for the Mission Planning and Analysis Division.

He is a 1962 graduate of the University of Texas with a BS degree in aerospace.

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CARL R. STROUD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Carl R. Stroud of Thornton, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

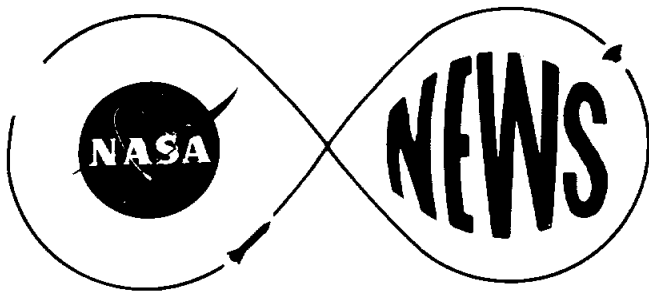
Stroud is a systems analyst in the Operations Integration Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is verification of Mission Control Center hardware interfaces for ASTP.

He is a 1961 graduate of Southern Methodist University with a BS degree.

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KATHLEEN R. SANDRAS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

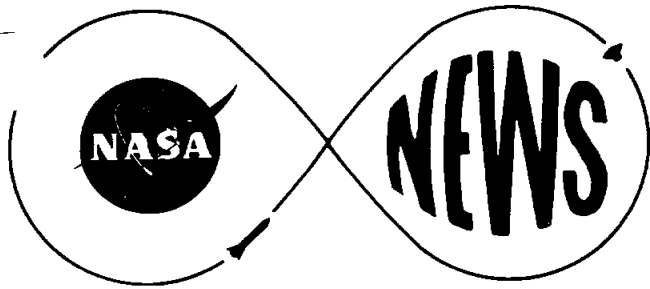
Kathleen R. Sandras of Cooper, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Sandras is secretary to the chief of the Mission Control Center Support Office in the Data Systems and Analysis Directorate. Her assignment for this joint United States-Soviet Union manned space mission is secretary to the contract technical manager for all the Mission Control Center support contractors for ASTP.

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BAILEY L. CORBETT, JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Bailey L. Corbett Jr. of Wichita Falls, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

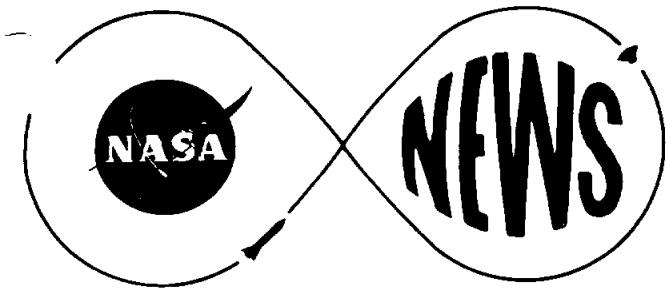
Corbett is a mathematician in the Data Processing Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is the responsibility for coordinating the development, testing and operation of the telemetry processing portion of the Real-Time Computer Complex (RTCC) computer programs which will be used to support the ASTP mission.

He is a 1958 graduate of Midwestern University with a BS degree.

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LEO F. WALTZ HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Leo F. Waltz of Denison, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

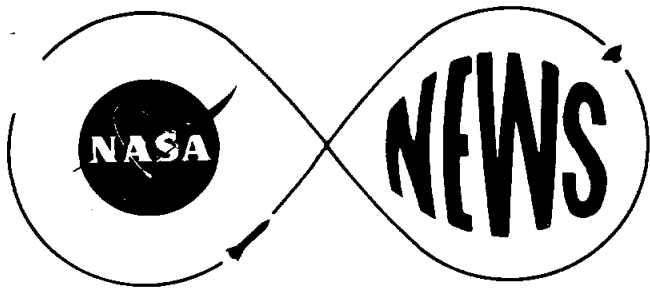
Waltz is a data systems technologist in the Software Systems Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is technical monitor for the real-time operating system performance in Mission Control Center.

He is a 1964 graduate of Texas Tech University with a BS degree in industrial engineering.

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JAMES E. MCGHEE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

James E. McGhee of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

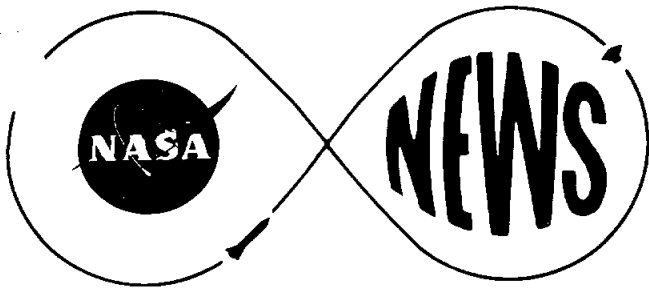
McGhee is a computer specialist in the Operations Support Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is technical monitor for management operations.

He attended the University of Houston from 1953 through 1957.

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WILLIAM J. BENNETT HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

William J. Bennett of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

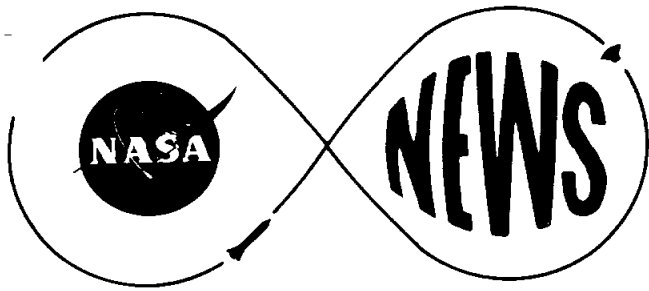
Bennett is a data management supervisor in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is data processing manager.

He is a 1962 graduate of St. Mary's University with a BS degree in mathematics.

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JAMES L. RANEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

James L. Raney of Breckenridge, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

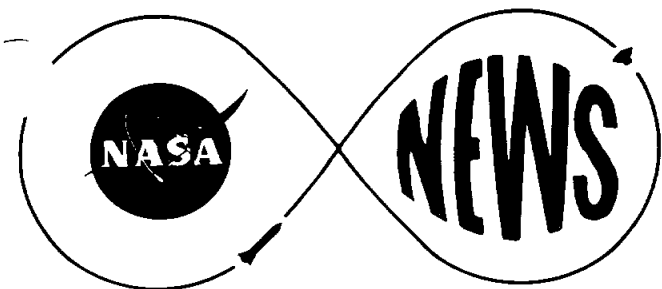
Raney is chief of the Engineering Mechanics Section of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is Experiment MA-083, the search for extreme ultraviolet radiation from celestial objects.

He is a 1960 graduate of the University of Texas with a BA degree in mathematics and a 1970 graduate of the University of Houston with a MA degree in engineering.

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FRED FULTON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

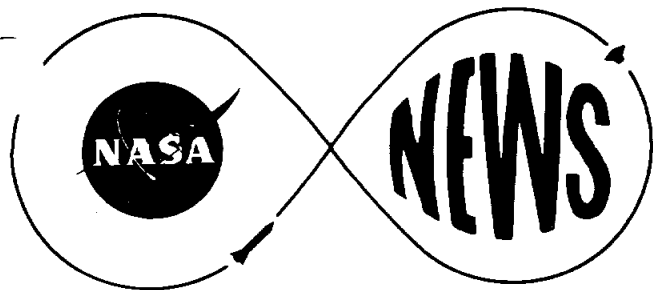
Fred Fulton of Union, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Fulton is chief of the Data Processing Branch in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is development and implementation of data processing systems, process science and engineering data acquired during the mission for post-flight analysis by scientific investigators and engineers.

He is a 1949 graduate of the University of Mississippi with a MA degree.



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ALLEN R. CUNNINGHAM HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Allen R. Cunningham of Chillicothe, Ohio, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

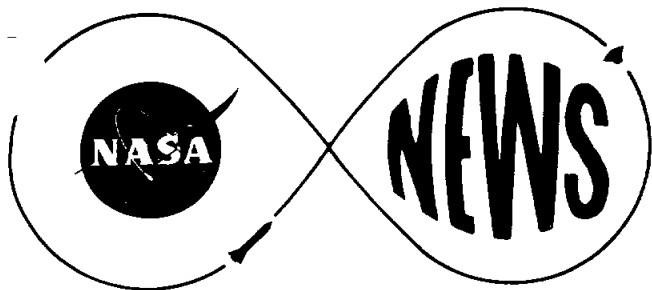
Cunningham is in the Tracking Techniques Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is experiment manager of MA-089 the doppler tracking experiment which will detect and measure localized anomalies of the earth's gravity field.

He is a 1960 graduate of Texas Tech with a BSEE degree.

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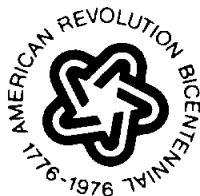
JOANNA HOWE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

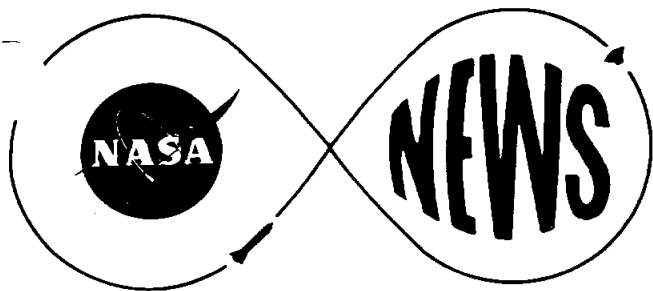
Joanna Howe of Lexington, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Howe is a secretary in the Mission Integration Branch of Mission Planning and Analysis Division. Her assignment for this joint United States-Soviet Union manned space mission is secretary to MPAD's project manager for ASTP and mission support engineers.

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THOMAS M. CONWAY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Thomas M. Conway of Pampa, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

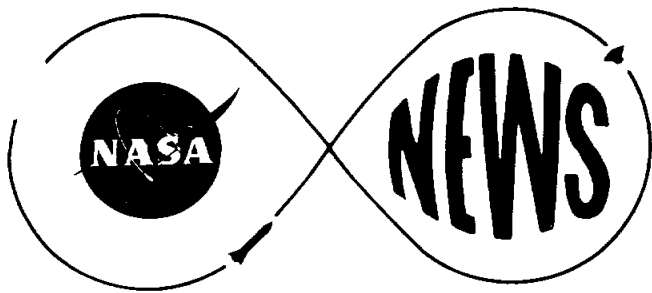
Conway is head of the Trajectory Logic and Processing Section of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is to provide ground trajectory software (computer programs) for flying the ASTP mission.

He is a 1962-64 graduate of North Texas State University with BS and MS degrees in mathematics.

- more -



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RONALD L. BERRY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

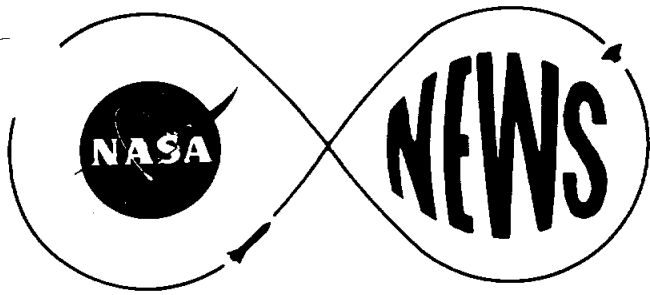
Ronald L. Berry of Grand Prairie, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Berry is chief of the Mission Planning and Analysis Division of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is overall responsibility for mission planning, ground and onboard software formulation and post-flight experiment data processing.

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LARRY B. PATTERSON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Larry B. Patterson of Riviera, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

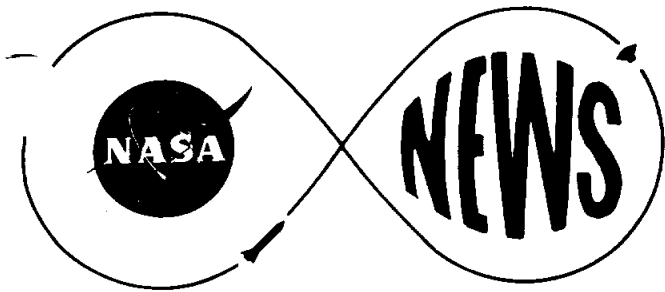
Patterson is head of the Systems Engineering Section of the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is system engineer for simulation, checkout and training systems for ASTP.

He is a 1963 graduate of Texas A&I University with a BS degree in electrical engineering.

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J'ANN HANSEN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

J'Ann Hansen of Donna, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

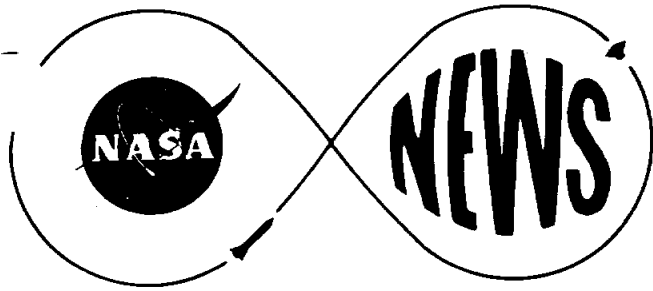
Hansen is a technical intern-aerospace engineer in the Flight Performance Branch of Mission Planning and Analysis Division. Her assignment for this joint United States-Soviet Union manned space mission is member of the deorbit and entry Mission Control Center staff support room support team.

She is a 1974 graduate of Pan American University with a BS degree in mathematics.

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JERRY T. KILPATRICK HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Jerry T. Kilpartick of Sinton, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

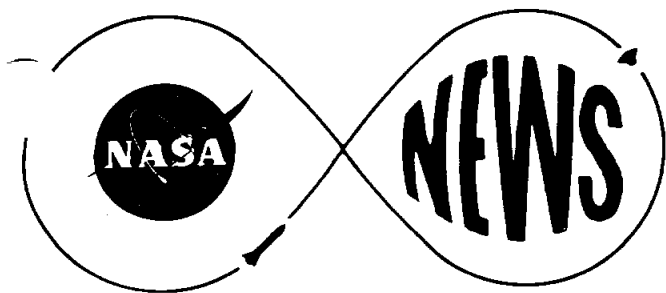
Kilpatrick is a technical manager's representative in the Mission Control Center Support Office of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is technical management of computer contracts for ASTP.

He is a 1963 graduate of Texas A&I University with a BS degree.

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ROBERT N. STUCKEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

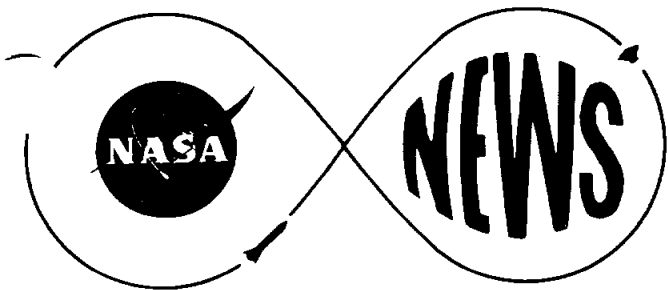
Robert N. Stuckey of Houston, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Stuckey is in the Structural Test Branch of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is project engineer for ASTP command module sea dye marker and ASTP fire extinguishers.

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L. RAY WHITAKER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

L. Ray Whitaker of Beaumont, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

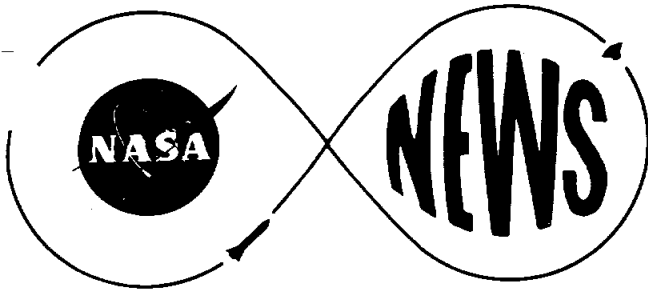
Whitaker is a program analyst in the Operations Integration Branch of the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is working the facilities support console in Mission Control Center.

He is a 1963 graduate of Lamar University with a BBA degree.

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RELEASE NO: 75-26

C. FORREST MALONE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

C. Forrest Malone of Dallas, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

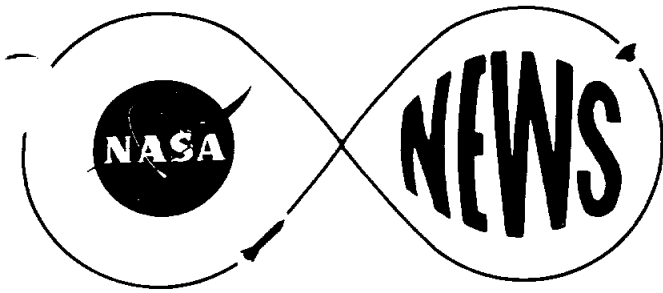
Malone is manager of the Scientific Computing Branch of the Institutional Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is responsibility for ASTP radiation analysis support and real-time data processing program development for the extreme ultraviolet radiation from celestial objects experiment on ASTP.

He is a 1951 graduate of Baylor University with a BS degree.

- more -



JUN 12 1975



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**FOR RELEASE:
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RELEASE NO: 75-26

RONALD D. DAVIS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Ronald D. Davis of Rushville, Missouri, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

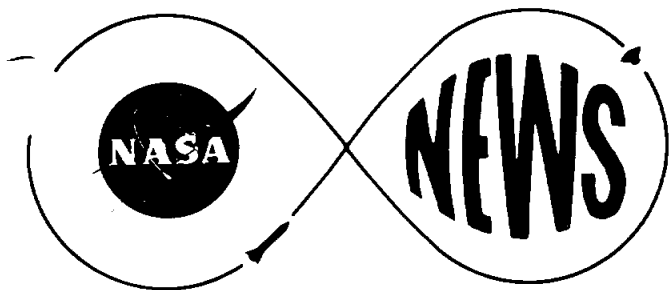
Davis is an aerospace engineer in the Flight Performance Branch of Mission Planning and Analysis Division. His assignment for this joint United States-Soviet Union manned space mission is in the launch abort area for Apollo.

He is a 1965 graduate of Northwest Missouri State College with a BA degree in mathematics and a 1967 graduate of the University of Missouri at Rolla with a BS degree in mechanical engineering.

- more -



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RELEASE NO: 75-26

KENNETH J. ALLEN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Kenneth J. Allen of Rigby, Idaho, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

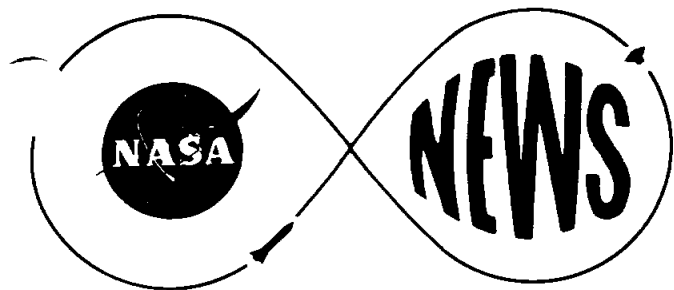
Allen is chief of the Mission Control Center Support Office in Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is contract technical manager for all of the Mission Control Center support contractors for ASTP.

He is a 1950 graduate of the University of Idaho with a BSEE degree.

- more -



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RELEASE NO: 75-26

NANCY BURKHALTER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

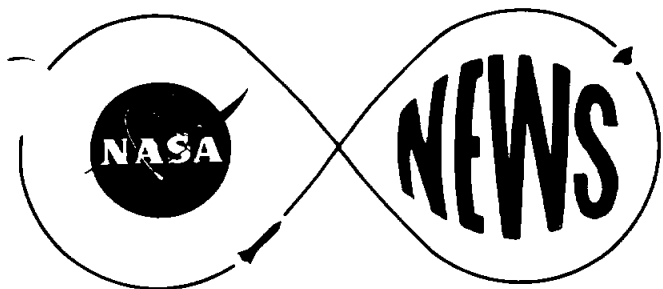
Nancy Burkhalter of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Burkhalter is a secretary in the Operations Integration Branch of Data Systems and Analysis Directorate. Her assignment for this joint United States-Soviet Union manned space mission is manning a position in Mission Control Center for distribution of tape dumps from the spacecraft to the various consoles in the control center during the ASTP mission.

- more -



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RELEASE NO: 75-26

DR. MATTHEW J. QUINN, JR. HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT
IN JULY

Dr. Matthew J. Quinn, Jr. of Ellsworth, Wisconsin, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

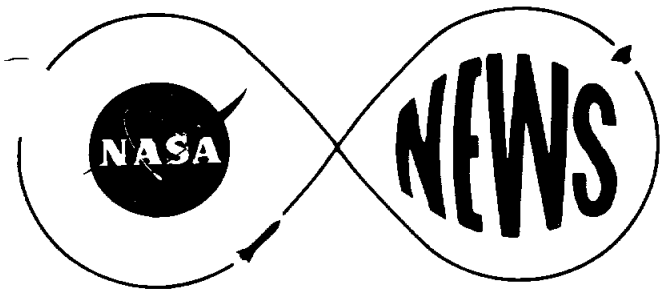
Dr. Ellsworth is a technical assistant in the System Engineering Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is engineering support for the Mission Control Center.

He is a 1956 graduate of the U.S. Military Academy with a BS/PHD degree.

- more -



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RELEASE NO: 75-26

PAUL T. PIXLEY HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

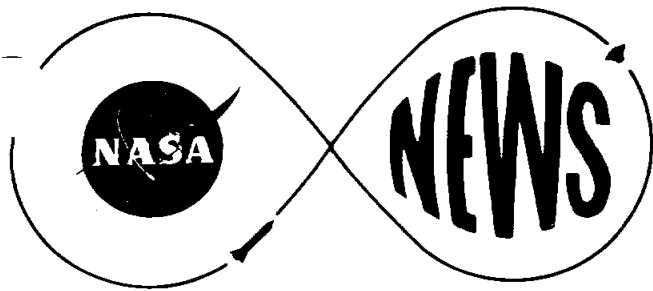
Paul T. Pixley of Carlsbad, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Pixley is head of the Navigation Analysis Section of Mission Planning and Analysis Division. His assignment for this joint United States-Soviet Union manned space mission is onboard rendezvous navigation consultant for ASTP.

- more -



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RELEASE NO: 75-26

JAMES M. ALLEN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

James M. Allen of Bryan, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

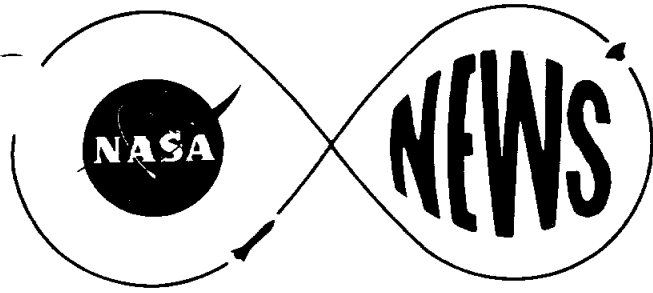
Allen is a data analyst in the Data Processing Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is computer telemetry controller in Mission Control Center.

He is a 1963 graduate of Texas Southern University with a BS degree.

- more -



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RELEASE NO: 75-26

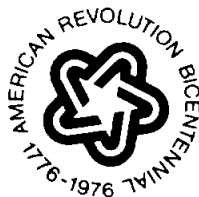
ROBERT S. BECKHAM HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

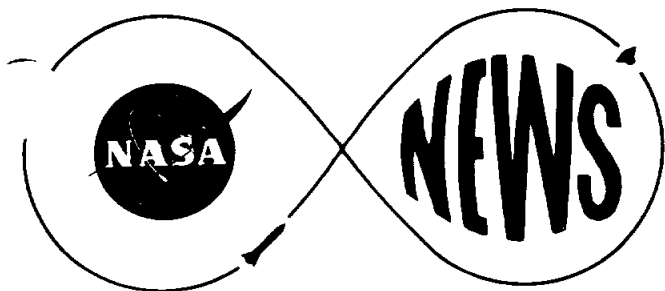
Robert S. Beckham of Denison, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Beckham is a data analyst in the Data Processing Branch of Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is real-time telemetry processing controller in Mission Control Center.

- more -

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RELEASE NO: 75-26

EDDIE A. TARKINGTON HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Eddie A. Tarkington of San Antonio, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Tarkington is in the Operations Integration Branch of the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is manager of the communications and television operations specialists in Mission Control Center.

He is a 1964 graduate of St. Mary's University with a BS degree in physics.

- more -

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PARTICIA A. FLANAGAN HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Patricia A. Flanagan of Spring, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Flanagan is a secretary in the Operations Integration Branch of Ground Data Systems Division. Her assignment for this joint United States-Soviet Union manned space mission is to provide secretarial support for the ASTP mission.

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RELEASE NO: 75-26

JOEL E. WAKELAND HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Joel E. Wakeland of Hattiesburg, Mississippi, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

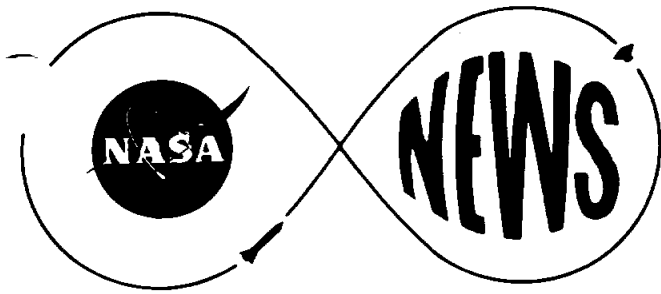
Wakeland is head of the Applications Programming Section in the Data Systems and Analysis Directorate. His assignment for this joint United States-Soviet Union manned space mission is as a data analyst.

He is a 1959 graduate of the University of Southern Mississippi with a BS degree.

- more -



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FRANKLIN U. WILLIAMS HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Franklin U. Williams of Kilgore, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

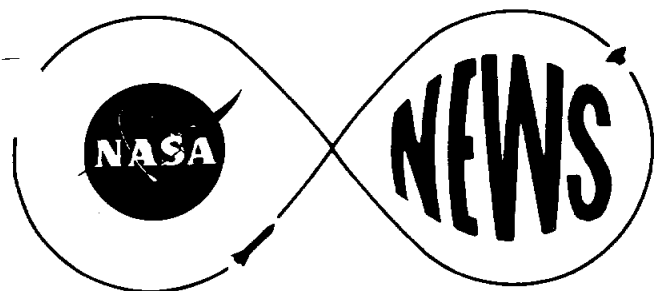
Williams is head of the Operations Engineering Section in the Space Environment Test Division of Engineering and Development. His assignment for this joint United States-Soviet Union manned space mission is thermal-vacuum manned testing of the ASTP Docking Module and originator for the analytical technique for design of the Infrared Thermal Simulator for ASTP.

He is a 1961 graduate of the University of Texas with a MSEE degree.

- more -



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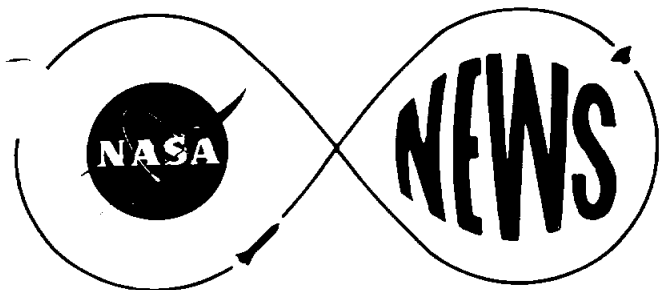
NORMAN H. GABBARD HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

Norman H. Gabbard of Seabrook, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Gabbard is an engineering technician in the Machine and Assembly Branch of Technical Services Division. His assignment for this joint United States-Soviet Union manned space mission is fabrication, machining of the docking test hardware and making commemorative plaques to be carried on the ASTP mission.

- more -





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**FOR RELEASE:
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RELEASE NO: 75-26

VIRGINIA A. TROTTER HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

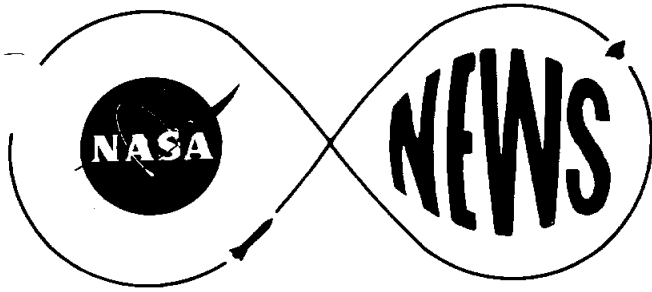
Virginia A. Trotter of Archer City, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Trotter is a Correspondence and Records Office supervisor in the Program Operations Office. Her assignment for this joint United States-Soviet Union manned space mission is providing administrative services support in areas such as correspondence control, files and records for ASTP.

- more -



JUN 19 1975



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**FOR RELEASE:
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RELEASE NO: 75-26

JOHN D. VANCE HAS PART IN JOINT APOLLO-SOYUZ SPACE FLIGHT IN JULY

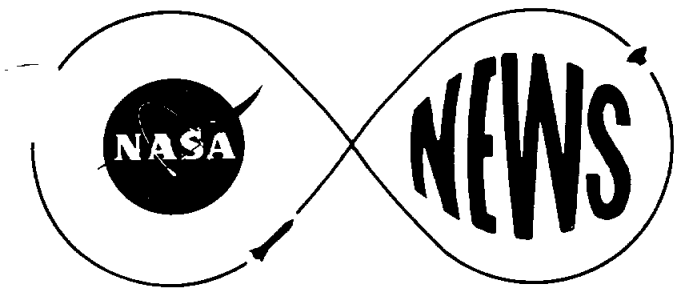
John D. Vance of Orangefield, Texas, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July of this year.

Vance is in the Data Processing Branch of the Ground Data Systems Division. His assignment for this joint United States-Soviet Union manned space mission is orbit determination manager for ASTP.

- more -



JUN 18 1975



**NATIONAL AERONAUTICS AND
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Terry White
713/483-5111

FOR RELEASE:
April 21, 1975

RELEASE NO: 75-27

TEXAS TECH HOSTS NASA-SPONSORED CONFERENCE

ON REMOTE EMERGENCY MEDICAL SERVICES

Recent developments in techniques and technology for rural emergency medical care will be discussed at a three-day conference May 15, 16 and 17, 1975, at Texas Tech University in Lubbock.

Presented by the Texas Tech University School of Medicine and College of Engineering under sponsorship of the NASA Johnson Space Center in Houston, the International Conference on Remote Emergency Medical Services will bring together experts in the field for an exchange of information. The final day, May 17, will be a Workshop in the Problems of Emergency Medical Care in West Texas.

Conference sessions will cover the characterization of an emergency medical system, communications and equipment, transportation, and treatment and training.

Johnson Space Center speakers at the Conference are JSC Director of Life Sciences Richard S. Johnston who will deliver welcoming

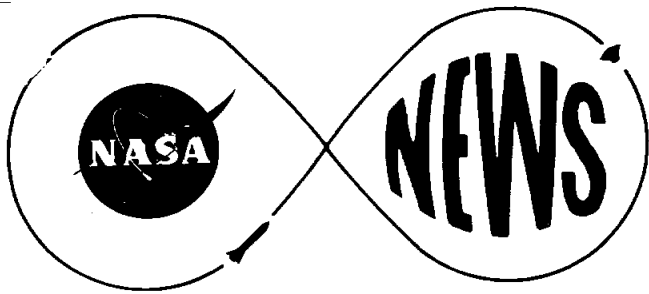


remarks; Richard L. Sinderson, Jr. will give a paper entitled "Permian Basin Communications Network;" Norman Belasco will give a paper, "STARPAHC: A Progress Report" (STARPAHC: Space Technology Applied to Rural Papago Advanced Health Care---a NASA-developed health care system on the 4300-square-mile Papago Indian reservation in southwestern Arizona). Richard B. Marston of NASA Headquarters will give a paper entitled "Satellite Aided Biomedical Telecommunications."

The Conference and Workshop have been approved for 17 hours of continuing medical education credit by the American College of Emergency Physicians.

Inquiries regarding the Conference should be directed to Dr. William M. Portnoy, P. O. Box 4267, Tech Station, Lubbock, TX 79409.

- end -



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Charles Redmond
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**FOR RELEASE:
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RELEASE NO: 75-28

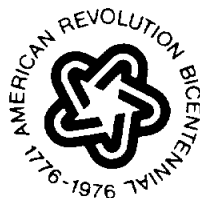
DR. GENNADY M. NIKOLSKY IS ASTP EXPERIMENTER

During this summer's joint Soviet-American space mission, the Apollo-Soyuz Test Project, one of the scheduled scientific experiments will involve the Apollo spacecraft occulting, or blocking, the sun so that the Soviet crewmen aboard the Soyuz can take sequential motion pictures of the sun's corona.

This experiment, coming on the heels of the extensive Skylab solar watching, will provide a valuable record of the changing face of our solar system's life-giving sun. The sun's corona changes constantly, at times dramatically and at other times more subtly, but always in motion. By providing pictures of the corona one year after the Skylab observations, the Soviet experiment will give solar physicists a continuing record of the sun's activities; hopefully providing further clues to the nature of our solar furnace.

Principle investigator for this Soviet experiment is Dr. Gennady M. Nikolsky, chief of the Solar Activity Laboratory of the Soviet Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, USSR Academy of Sciences.

Dr. Nikolsky has been involved in solar watching experiments since 1955, when he was working on his master's degree at Kiev University. In 1964, he received his doctorate from Kiev University for studies in

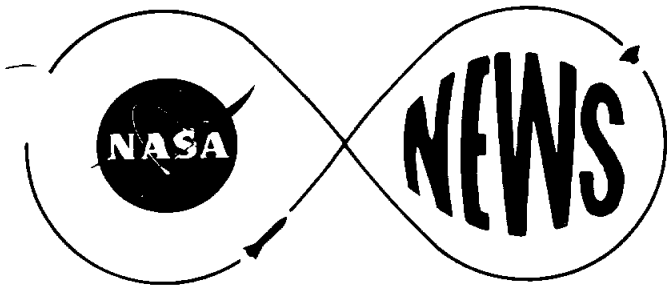


the upper solar atmosphere in the extreme ultraviolet spectrum.

Dr. Nikolsky has had published more than 90 scientific papers dealing with solar atmospheres and extreme ultraviolet radiation. He is a member of the International Astrophysical Union and has been a professor of astrophysics since 1971.

Dr. Nicolsky combines his passion for astrophysics with one for literature and outdoor activities. He was born in 1929.

- end -



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**FOR RELEASE:
UPON RECEIPT**

RELEASE NO: 75-29

DR. RUSSELL MARTIN IS ASTP EXPERIMENTER

Throughout the early space programs and during the Apollo and later Skylab missions life scientists have studied the effect of space travel and prolonged weightlessness on the circulating blood cells of astronauts. However, certain types of blood cells have not been extensively studied. During this summer's joint Soviet-U.S. space mission certain white blood cells called polymorphonuclear leukocytes will be intensively studied to determine how a space environment affects them.

Principal investigator for the leukocyte studies is Dr. Russell Martin, a Baylor College of Medicine associate professor of medicine and microbiology and immunology.

Dr. Martin explains that the polymorphonuclear leukocytes are circulating white blood cells which surround foreign objects, such as bacteria, when they enter the body and therefore play an important function in fighting infection.

If these cells are altered during space flight, space travellers could become more susceptible to certain kinds of infection.

The study Dr. Martin will perform, during the Apollo Soyuz Test Project in July, will measure the number of polymorphonuclear leukocytes in the circulatory system and measure a variety of leukocyte functions including the ability of the cells to adhere to a surface (as they must adhere to the blood vessels); the ability of the leukocytes to migrate in



response to chemical stimulæ (as they must migrate to the site of an infection or trauma); and their ability to ingest and kill infecting bacteria.

To perform this experiment, blood samples will be collected from the astronauts to provide leukocytes so evaluations can be made pre-mission and post-mission. Three samples will be taken 45, 30 and 15 days prior to launch and as soon as possible following the return of the crew from space. The first post-flight sample will be taken at the crews initial medical examination, and the second, 24 hours later. An additional sample will be taken sometime during the following week.

Dr. Martin explains that if any of the leukocyte tests reveals a cellular abnormality, samples will be drawn until there is a return to the pre-flight values for the leukocytes.

All samples will be analyzed with equipment located in the NASA modular laboratory which will be transported from the Johnson Space Center prior to splashdown to the recovery ship in the Pacific. Dr. Martin will be on the carrier to complete the tests.

Dr. Martin hopes that by testing the functions of the white blood cells systematically the possible effects of prolonged weightlessness on their function can be evaluated.

A Baylor College of Medicine colleague of Dr. Martin's, Dr. B. Sue Criswell will perform related experiments on white blood cells called lymphocytes during the same period. Drs. Martin and Criswell will correlate the results of their experiments at the completion of their testing.

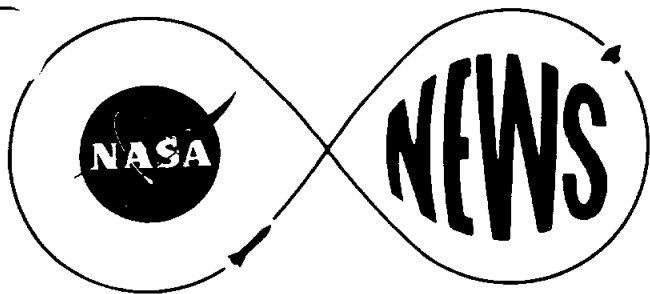
Dr. Martin moved to Houston in 1971, from Indianapolis where he was an associate professor of medicine at the Indiana University School of Medicine. He received his medical training at the Medical College of Georgia and his undergraduate degree from Yale University.

He is also associated with the Ben Taub General Hospital in Houston as chief of the hospital's infectious diseases section. In addition he is an attending physician at the Methodist Hospital and the Veterans Administration Hospital, also in Houston.

Dr. Martin is widely published in medical literature as an immunology specialist. He is a member of the American Association for the Advancement of Science and the Infectious Diseases Society of America as well as many other professional societies.

Dr. Martin and his wife Mary Ann have three children, Karen, 13; Rusty, 12; and John, 10. Dr. Martin is 39 years old, and was born in Georgia.

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Charles Redmond
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**FOR RELEASE:
UPON RECEIPT**

RELEASE NO: 75-30

DR. FAROUK EL-BAZ IS ASTP EXPERIMENTER

When Soviet and American astronauts venture into space for this summer's joint Soviet-U.S. space mission they will be actively looking for new features of the earth. The two crews will be taking photographs over large areas of the earth including the Himalayas in India, and the ocean currents off South America.

The scientist responsible for interpreting the pictures taken by U.S. astronauts is one of the pioneer space photography interpreters.

Dr. Farouk El-Baz, director of the Smithsonian Center for Earth and Planetary Studies, has been looking at pictures taken by astronauts since 1969.

Dr. El-Baz, a native of the Nile Delta region of Egypt, has published dozens of detailed photo interpretations of the moon's surface features during the past five years and as a research director for the Smithsonian heads a team of geoscientists in extraterrestrial interpretation.

As a scientist, Dr. El-Baz is widely respected for his remote interpretation of geology. He received a degree in chemistry and geology from Ain Shams University in Cairo in 1958. Following that he received his masters and doctors degrees in geology from the University of Missouri.



As a geologist, Dr. El-Baz has much field work to his credit, having worked for the Pan-American-UAR Oil Company in Egypt.

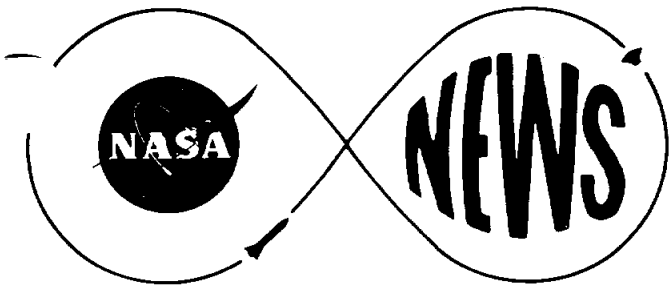
In 1969, the year of man's first landing on the moon, Dr. El-Baz was a team leader of the scientific team which selected the early Apollo landing sites. He was a member of the science support teams for the Apollo 8 through 14 missions.

Dr. El-Baz has been honored many times for his work in the geological sciences and is a member of nearly two dozen professional societies.

As an Apollo-Soyuz Test Project principle investigator, Dr. El-Baz will coordinate the investigations the astronauts will do in the fields of earth geology, mineral and petroleum resources, oceanography, hydrology, meteorology and environmental science. In Dr. El-Baz' opinion, his lunar interpretations will assist the ASTP earth observations. "The study of the earth and the moon cannot really be separated," El-Baz says.

As director for the Center for Earth and Planetary Studies at the Smithsonian's Air and Space Museum, El-Baz is working on a complete collection of all of the moon and earth photographs taken by the Apollo and Skylab missions. It is expected to be one of the finest such collections in the country and will be made available for research.

Dr. El-Baz and his wife, Catherine Patricia, have four daughters --- Monira, Soraya, Karima and Fairouz.



**NATIONAL AERONAUTICS AND
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Robert Gordon
713/483-5111

FOR RELEASE:
April 18, 1975

RELEASE NO: 75-31
Also released at NASA Headquarters and FRC

DAVID R. SCOTT APPOINTED DIRECTOR, FLIGHT RESEARCH CENTER

Dr. David R. Scott has been appointed Director of NASA's Flight Research Center at Edwards, California. Dr. Scott has been serving as Acting Director of FRC since January 1975, when Lee R. Scherer left to become Director of Kennedy Space Center, Florida. Dr. Scott was named Deputy Director of FRC in August 1973. He is retired from the U.S. Air Force where he held the rank of Colonel.

As a former NASA astronaut, Dr. Scott flew on Gemini 8, Apollo 9, and was spacecraft commander of Apollo 15. After leaving the astronaut corps in 1972, Dr. Scott was named Technical Assistant to the Apollo Program Manager at Johnson Space Center, Texas.

Before accepting his position as Deputy Director of Flight Research Center, Scott served as Special Assistant for Mission Operations and Government Furnished Equipment in the Apollo Spacecraft Program Office. He has more than 5,300 hours flying time.

On the Gemini 8 mission in 1966, Scott and Command Pilot Neil Armstrong performed the first successful docking of two vehicles in space. As command module pilot for Apollo 9 in 1969, Scott was instrumental in completing the first comprehensive Earth-orbital qualification and verification test of a "full configured Apollo spacecraft." In 1971, Dr. Scott commanded Apollo 15, which was the fourth manned lunar landing mission, and was the first to visit and explore the Moon's Hadley Rille



and Apennine Mountains.

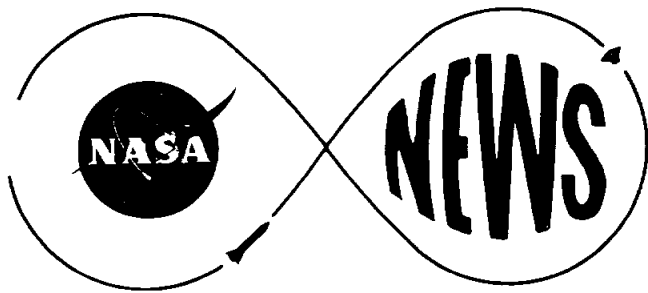
Dr. Scott, 42, received a Bachelor of Science degree from the U.S. Military Academy in 1954, ranking fifth in a class of 633, and Master of Science in Aeronautics and Astronautics, and an Engineering degree in Aeronautics and Astronautics from MIT in 1962. He was awarded an honorary Doctorate of Astronautical Science from the University of Michigan in 1971. He was graduated from the Air Force Experimental Test Pilot School and the Aerospace Research Pilot School.

Among Dr. Scott's special honors are two NASA Distinguished Service Medals, the NASA Exceptional Service Medal, two Air Force Distinguished Service Medals, the Air Force Distinguished Flying Cross, the Air Force Association's David C. Schilling Trophy and the Robert J. Collier Trophy for 1971.

Dr. Scott is a Fellow of the American Astronautical Society; Associate Fellow of the American Institute of Aeronautics and Astronautics; and a member of the Society of Experimental Test Pilots and Tau Beta Pi, Sigma Xi and Sigma Gamma Tau.

Dr. Scott is married to the former Ann Lurton Ott, from San Antonio, Texas. They have two children.

- end -



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Robert Gordon
713/483-5111

FOR RELEASE:
April 23, 1975

RELEASE NO: 75-32

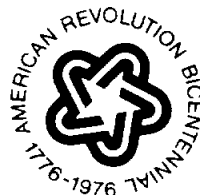
AIL RECEIVES ORBITER LANDING CONTRACT

The National Aeronautics and Space Administration has signed a cost-plus-fixed fee contract with the AIL Division of Cutler-Hammer, Inc., for acquisition of the Microwave Scanning Beam Landing System ground stations for the Space Shuttle Orbiter.

AIL was awarded the contract on a non-competitive basis as a subcontractor to Rockwell International, the Shuttle vehicle prime contractor.

The approximate \$11 million contract authorizes AIL to perform the research and development effort necessary to build and provide the NASA the ground stations for the Shuttle Orbiter landing sites. The hardware will have the capability to transmit localizer and glide slope signals to the Orbiter and will also have the capability to respond to distance measurement interrogations from the Orbiter vehicle.

The Space Shuttle will be a reusable space vehicle operated as a transportation system for a wide variety of space missions in low Earth orbit. The Shuttle will deploy and recover scientific and applications satellites of all types. Since it can carry payloads weighing up to 29,500 kilograms (65,000 pounds), it will replace most of the expendable launch vehicles currently used, and be capable



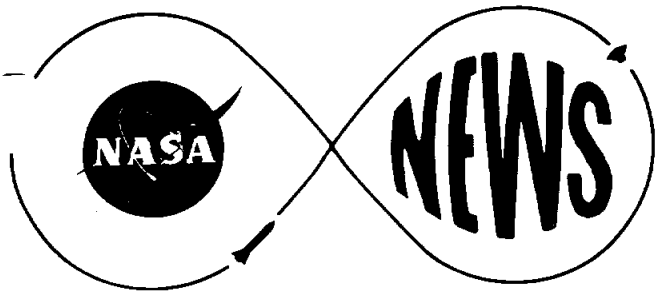
of launching deep space missions into their initial low Earth orbit.

The Shuttle will consist of a reusable orbiter, a large expendable liquid propellant tank and two recoverable and reusable solid propellant rocket boosters. The orbiter will look like a delta-winged airplane, about the size of a DC-9 jet air liner.

AIL will conduct a qualification and acceptance test program to insure that the ground stations are compatible with hardware planned for use onboard the Shuttle Orbiter.

The pre-delivery portion of the contract will be performed at the AIL Farmingdale and Deer Park, Long Island, New York facilities. Post-delivery testing will be performed at the NASA Orbiter landing sites in Florida and California.

- end -



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

FOR RELEASE:
April 25, 1975

RELEASE NO: 75-33

ASTRONAUT JOHN W. YOUNG TO MAKE PERSONAL APPEARANCES IN FLORIDA

Captain John W. Young, chief of the Astronaut Office, Lyndon B. Johnson Space Center in Houston, Texas, will make personal appearances May 1-3, 1975, at the Kennedy Space Center and in his hometown of Orlando, Florida.

Young will speak at the KSC Apollo/Skylab Flags Ceremony at 10 a.m. Thursday, May 1, in the KSC Personnel Training Building at the Kennedy Space Center.

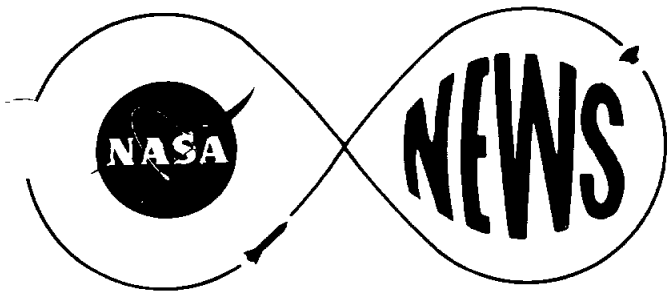
Friday evening at 7 p.m. on May 2, Young will be the featured speaker at the National Junior Honor Society annual banquet of Memorial Junior High School in Orlando. He is being honored as the alumnus of the Memorial Junior High Honor Society who has reached the "greatest height."

Saturday afternoon, May 3, Young will attend dedication ceremonies of the major expansion of the John Young Museum and Planetarium in Orlando. The ceremonies are scheduled to begin at 4:30 p.m. He is also attending a reception and patrons party for the museum and planetarium at 7:30 p.m. that evening.

Young was pilot of the first manned Gemini mission March 23, 1965, and command pilot of the Gemini 10 flight July 18-21, 1966. He was command module pilot of Apollo 10, May 18-26, 1969, and commander of Apollo 16 Lunar Landing Mission, April 16-27, 1972.

Young's current assignment as chief of the Astronaut Office makes him responsible for monitoring the coordination, scheduling, and control of all activities involving NASA astronauts.





**NATIONAL AERONAUTICS AND
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Houston, Texas 77058**

Charles Redmond
713/483-5111
ALSO RELEASE AT NASA HEADQUARTERS

FOR RELEASE:
April 24, 1975

RELEASE NO: 75-34

ASTP EXPERIMENT PLANNED ON ULTRAVIOLET ABSORPTION

At present the abundances of atomic oxygen and atomic nitrogen in the Earth's upper atmosphere are not accurately known.

A sophisticated method for measuring the atomic oxygen and nitrogen in the Earth's upper atmosphere, at the orbital altitude of the spacecraft, is planned for the U.S.-U.S.S.R. Apollo-Soyuz mission in July.

The experiment, UV Absorption, will use monochromatic light beams in the ultraviolet wavelengths.

- more -

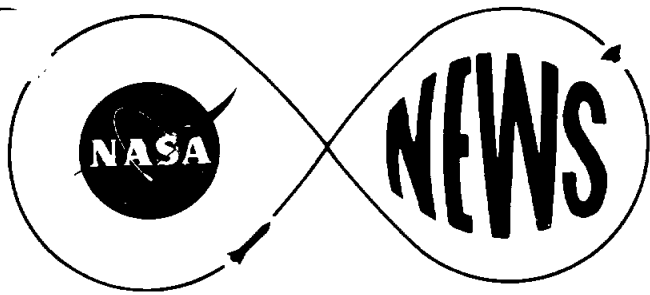


The light beams will be sent from the Apollo spacecraft to the Soyuz vehicle where they will be reflected back to the Apollo and an optical absorption spectrometer. The amount of the reflected light reaching the spectrometer will be proportional to the concentration of atomic oxygen and nitrogen and the distance between the spacecraft.

These measurements will be taken at various separations of the two spacecraft between 150 meters (165 yards) and 1 kilometer (0.6 miles). By combining the known distances with the measured light beams at those distances, scientists may determine the abundances of neutral atomic oxygen and nitrogen at the spacecraft altitude, approximately 225 km (135 miles).

Principal investigator for this experiment is Dr. T. M. Donahue of the Physics Department, University of Michigan. Dr. R. D. Hudson, of the Johnson Space Center, Houston, Texas, is a co-principal investigator for this experiment.

- end -



**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

FOR RELEASE:
April 25, 1975

RELEASE NO: 75-35

E. RAY HISCHKE TO PRESENT PAPER ON ASTP WEIGHTS & MASS PROPERTIES

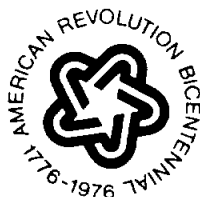
E. Ray Hischke, of the Systems Requirements and GFE Branch of the Program Operations Office at the NASA Johnson Space Center in Houston, Texas, is scheduled to present a paper on the Apollo-Soyuz Test Project Weight and Mass Properties Operations Management System, May 5, 1975, in Seattle, Washington.

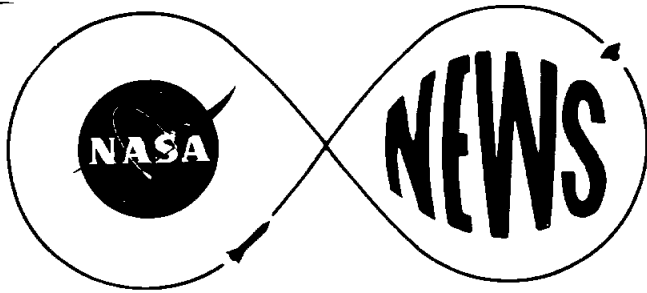
Hischke is co-author of the paper with Michael A. Collins, Jr., also of JSC. The paper will be presented to the 34th annual conference of the Society of Allied Weight Engineers, Inc. Hischke is a member of the Houston chapter of the society.

The Apollo-Soyuz Test Project (ASTP) Weights and Mass Properties Operational Management System has been established to assure a timely and authoritative method of acquiring, controlling, generating, and disseminating an official set of vehicle weights and mass properties data.

These data are utilized by NASA and contractor operational elements in support of the joint United States-Russian space flight that is to be conducted in July of 1975.

Hischke is from Highland, Kansas, and is a 1965 graduate of Northwest Missouri State University with a BS degree in mathematics.





**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

FOR RELEASE:
April 25, 1975

RELEASE NO: 75-36

MICHAEL A. COLLINS, JR. TO PRESENT PAPER ON ASTP WEIGHTS & MASS PROPERTIES

Michael A. Collins, Jr., chief of the Systems Requirements and GFE Branch of the program Operations Office at the NASA Johnson Space Center in Houston, Texas, is scheduled to present a paper on the Apollo-Soyuz Test Project Weight and Mass Properties Operations Management System, May 5, 1975, in Seattle, Washington.

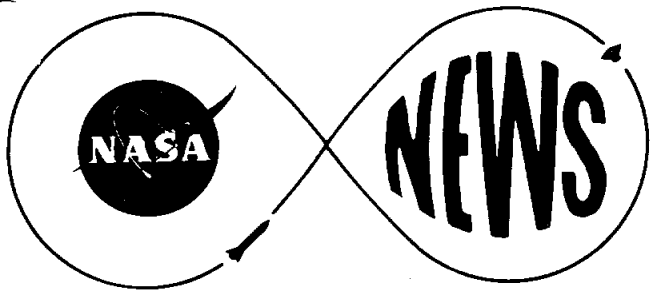
Collins is co-author of the paper with E. Ray Hischke, also of JSC. The paper will be presented to the 34th annual conference of the Society of Allied Weight Engineers, Inc. Collins is treasurer of the Houston chapter of the society.

The Apollo Soyuz Test Project (ASTP) Weights and Mass Properties Operational Management System has been established to assure a timely and authoritative method of acquiring, controlling, generating, and disseminating an official set of vehicle weights and mass properties data.

These data are utilized by NASA and contractor operational elements in support of the joint United States-Russian space flight that is to be conducted in July of 1975.

Collins is from New Orleans, Louisiana, and a 1961 graduate of Southeastern Louisiana University with a BS degree. He attended Jesuit High School in New Orleans.





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Milton E. Reim
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FOR RELEASE:
April 25, 1975

RELEASE NO: 75-37

SPERRY UNIVAC SELECTED FOR SHUTTLE MISSION SIMULATOR COMPUTER COMPLEX

The National Aeronautics and Space Administration has selected Sperry Rand Corp., Sperry Univac, for negotiation of a fixed price contract for a Shuttle Mission Simulator Computer Complex (SMSCC) at the Lyndon B. Johnson Space Center. The contractor's proposed price is approximately \$8 million.

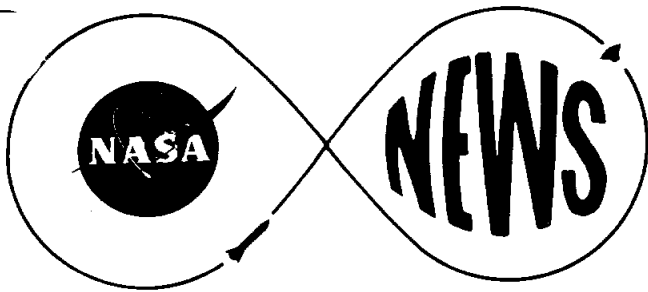
Sperry Univac will design, develop, fabricate, test and deliver a computing complex for the Shuttle Mission Simulator to be utilized in the Shuttle Program. The SMSCC will consist of all the hardware and software required to operate the Shuttle Mission Simulator.

The contract will be under the technical direction of the NASA, Lyndon B. Johnson Space Center, Houston, Texas.

IBM and Control Data Corp. also submitted proposals.

- end -





**NATIONAL AERONAUTICS AND
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Johnson Space Center
Houston, Texas 77058**

Robert Gordon
713/483-5111

FOR RELEASE:
April 30, 1975

RELEASE NO: 75-38

SHUTTLE ORBITER WING DELIVERY

The first set of wings for NASA's Space Shuttle Orbiter today started an 18-day land and water journey which began at the Grumman Aerospace Corporation's Bethpage, New York, facility and ends at Palmdale, California, site for the Orbiter's final assembly.

The two-wing panels, each measuring 30 feet from tip to fuselage and 60 feet in width where they join the fuselage, departed Grumman's Bethpage, Long Island, facility and traveled nine miles overland to Oyster Bay, aboard two large, specially-designed transporters. The transporters have their own braking and lighting systems, and each will be pulled by a truck at a maximum speed of 10 miles per hour.

The initial leg of the journey took two hours. At Oyster Bay, the wing panels, totaling approximately 1,500 square feet of surface and 12,000 pounds in weight and wrapped in a moisture-proof soft cover, will be loaded by crane, along with the transporters, onto a waiting barge.



A tugboat will pull the barge, west through Long Island Sound and the East River, to the Sea-Land Terminal in Port Elizabeth, New Jersey, where the wing assemblies and transporter will be transferred to an ocean-going container ship. The ship will travel, for about 13 days by way of the Panama Canal, to Long Beach, California. Upon arrival at Long Beach, the two transporters, with the wing panels still secured, will proceed overland, north through Los Angeles to Palmdale, California, a distance of about 100 miles which will take two days to cover.

Grumman Aerospace Corporation was awarded a contract in excess of \$40 million to design, manufacture and test the wings for the Space Shuttle Orbiter, in March 1973, by Rockwell International.

The Orbiter wing, made in two panels, has a "double Delta" design. Aluminum is the primary material, and truss-type ribs and corrugated-web spars were used in the construction to provide a low cost, lightweight, high reliability design.

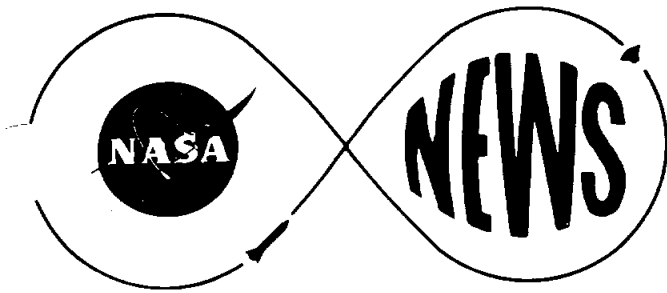
The Space Shuttle Orbiter, the first reusable space vehicle, is a space airplane which can fly in the atmosphere like conventional aircraft and in space like a space vehicle. It has the capability of carrying a variety of payloads into orbit as well as retrieving them for return to earth.

Most of the United States' efforts in space during the 1980's and 1990's will in some way be related to the Space Shuttle transportation system. The system will significantly reduce the cost

because of its reusability, while at the same time increasing the effectiveness of using space for commercial, scientific and defense needs.

NASA's Lyndon B. Johnson Space Center, Houston, Texas, is responsible for management of the Space Shuttle Program.

- end -



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Charles Redmond
713/483-5111

**FOR RELEASE:
UPON RECEIPT**

RELEASE NO: 75-39

CAMBRIDGE GEOASTRONOMER IN ASTP EXPERIMENT

A Cambridge, Massachusetts geoastronomer Dr. George C. Weiffenbach has an experiment aboard the upcoming US-USSR space mission which may contribute significantly to the understanding of continental drift theory and provide a better comprehension of earthquakes and volcanic activity in the Earth's crust.

In recent years Earth scientists have begun investigations of gravity differences in the Earth's mantle and crustal plates. The anomalies, or mass concentrations as they are also called, are believed to exist at boundaries of major tectonic plates such as the San Andreas fault in California, along the east coast of Asia, along the mid-Atlantic ridge and in other places.

In order to measure large anomalies, on the order of several hundred kilometers, the Apollo command and service module will track, using Doppler equipment, the undocked docking module and the ATS-6 satellite. This experiment will be run following separation with the Soviet Soyuz.

Any perturbations caused by gravity differences in the earth below will be observed and recorded using the Doppler tracking equipment.

Weiffenbach, the director of the Smithsonian Astrophysical Observatory's Geoastronomy programs, is the Principal Investigator for this sophisticated experiment. Dr. Weiffenbach has a long association with applied space physics which began



RELEASE NO: 75-39

in 1951, when he joined the Applied Physics Laboratory at Johns Hopkins University, Baltimore. Following a tenure as the supervisor of the Space Research and Analysis unit at Johns Hopkins, Weiffenbach received his doctorate from the Catholic University, Washington. In 1969, he joined the Smithsonian in Cambridge.

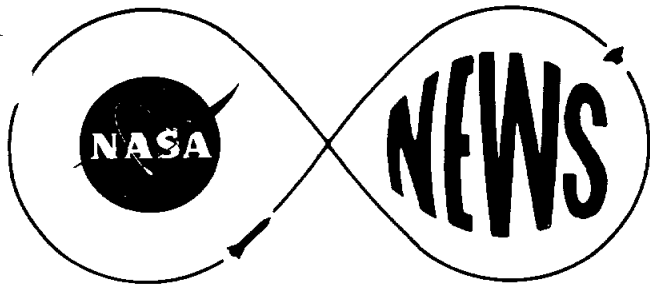
Due in large part to Dr. Weiffenbach's expertise in related fields such as microwave spectroscopy, electromagnetic-wave propagation, and satellite tracking, the Doppler tracking experiment will also be used to further define the electron density of the ionosphere during the day-night transition periods of the Apollo spacecraft. This aspect of the experiment is expected to clear up an ambiguous parameter of the Earth's atmosphere which has puzzled scientists for decades.

Dr. Weiffenbach originally proposed the Doppler tracking experiment, called MA089 by NASA, in the early stages of development for the Apollo-Soyuz Test Project and has had about 4 years to refine his experimental approach.

Dr. Weiffenbach, his wife Frances, and their five children, live in Winchester, Massachusetts. Geoastronomer Weiffenbach combines his pursuit of astrophysics with an interest in classical music and sailing.

- end -

May 1, 1975



**NATIONAL AERONAUTICS AND
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Houston, Texas 77058**

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**FOR RELEASE:
UPON RECEIPT**

RELEASE NO: 75-40

NAVAL RESEARCH SCIENTIST IS ASTP EXPERIMENTER

Dr. Herbert Friedman, distinguished superintendent of the Naval Research Laboratory's Space Science Division, has a lot at stake on the July Apollo-Soyuz Test Project. Dr. Friedman is the Principal Investigator for an experiment which is expected to map the celestial sky for soft x-ray sources.

Soft x-ray astronomy is a means of studying the structure of the Milky Way galaxy, and the intergalactic medium -- gasses which exist between galaxies.

The NRL experiment aboard the Apollo will provide ten days of observations, or hundreds of times more observation than all previous rocket experiments. Because of the extended time for observation, resolution 6 times greater than previously obtained on rocket flights and large gains in sensitivity are expected to result.

- more -



Dr. Friedman says the field of soft x-ray astronomy is important because soft x-rays are peculiar to many cosmological happenings in and out of galaxies. Ancient supernova remnants generate x-rays at the shock fronts where the expanding supernova gasses hit the interstellar medium. Hot interstellar gas at temperatures of 300,000 to 1 million degrees exist in many parts of the galactic disk and this gas radiates soft x-rays. Unidentified x-ray sources in the galaxy may also be associated with clusters of stars in the halo of the Milky Way or they may exist outside of the galaxy... if they exist outside the Milky Way they would comprise a new species of astronomical bodies which seem to radiate only x-rays.

Dr. Friedman is well qualified to perform the experiment. He received his doctorate in physics from the Johns Hopkins University, Baltimore, in 1940, and joined the Naval Research Lab at that time. Since then he has conducted or directed programs in metallurgy, electron optics, nuclear radiation and space research.

He is presently Chief Scientist of the E. O. Hulburt Center for Space Research at NRL. He conducted his first rocket astronomy experiments in 1949, with a V-2 vehicle. Since that time he has participated in over 100 rocket experiments and numerous satellite programs.

Dr. Friedman's work has traced solar cycle variations of x-rays and ultraviolet radiations from the Sun, revealed the x-ray emission of solar flares, produced the first x-ray and ultraviolet photographs of the sun, discovered the hydrogen geocorona and measured the UV flux of early-type stars.

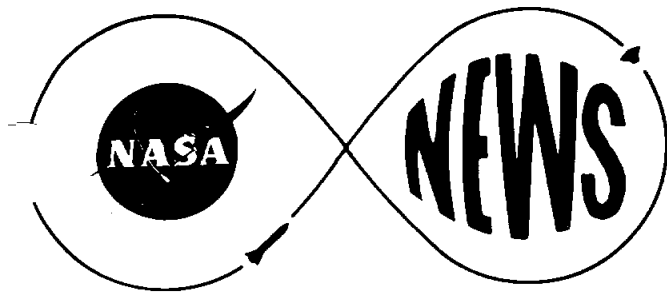
During this past decade, Dr. Friedman's efforts to map the sky for x-ray sources have discovered many new x-ray stars, x-ray galaxies and the x-ray pulsar in the Crab Nebula.

For his efforts in the advancement of astrophysics, Dr. Friedman was awarded the National Medal of Science in 1969, the nation's highest honor for scientific achievement.

Dr. Friedman is a member of the National Academy of Sciences, The American Philosophical Society, the American Academy of Arts and Sciences and the International Academy of Astronautics.

In addition to his exceptional talent for research, Dr. Friedman also teaches at the University of Maryland, at Yale University and at the University of Pennsylvania.

Dr. Friedman and his wife Gertrude were married in 1940, and have two sons. Dr. Friedman manages to find time occasionally to relax in his Arlington, Virginia, home with his hobbies which include art, music and tennis.



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Charles Redmond
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FOR RELEASE:
UPON RECEIPT

ALSO RELEASED AT NASA HEADQUARTERS

RELEASE NO: 75-41

ASTP TO STUDY EARTH MASS DENSITY CONCENTRATIONS

A study of mass density concentrations in the Earth's upper layers from the orbiting Apollo spacecraft in the U.S.-U.S.S.R. joint Apollo Soyuz Test Project (ASTP) this summer is expected to be helpful to scientists in understanding important aspects of Earth's evolution, including continental drift.

A Doppler tracking experiment planned for the international manned space flight beginning July 15 will return data to be used in determining mass density anomalies of a magnitude that have not been detected by previous satellite or surface measurements. The surface measurements have studied the mass density concentrations of less than 100 kilometers in size and observations of satellite orbit deviations have enabled scientists to study anomalies of about 2,000 km. in size.

- more -



The ASTP experiment is expected to return information on the anomalies ranging in size from about 100 to 700 km.

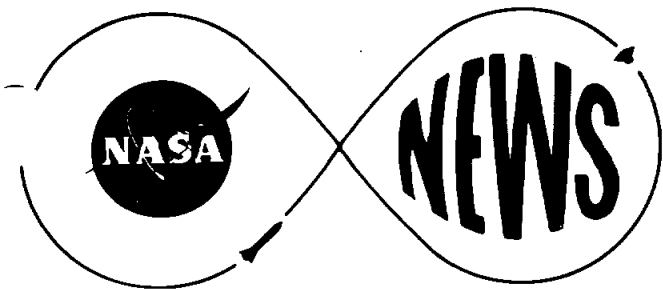
The Doppler tracking experiment will be performed after the joint phase of the ASTP mission has been completed. The Apollo docking module will be separated from the command/service module to a distance of approximately 300 km. and radio techniques will be used to measure the relative motions between them. The object is to detect the small relative motions which arise each time one of the vehicles crosses the boundary of a gravitational field anomaly caused by a mass concentration in the Earth below.

Measurements will be useful in presenting a consistent picture of the Earth's upper layers.

The principal investigator for this experiment is Dr. G. C. Weiffenbach of the Smithsonian Astrophysical Observatory in Cambridge, Mass. One of Dr. Weiffenbach's co-investigators for this experiment is P. W. Shores of the Johnson Space Center, Houston, Texas.

- end -

May 2, 1975



**NATIONAL AERONAUTICS AND
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Johnson Space Center
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Milton E. Reim
713/483-5111

FOR RELEASE:

May 9, 1975
A. M.

RELEASE NO: 75-42

MOSCOW/HOUSTON CONTROL CENTERS TO CONDUCT JOINT APOLLO-SOYUZ
SIMULATIONS

A series of simulations between flight controllers and Apollo-Soyuz crewmen in Houston and Moscow are scheduled to begin Tuesday, May 13 in preparation for the joint flight in July.

The first Apollo-Soyuz Test Project (ASTP) simulation will begin at 6:20 a.m. CDT, May 13, one hour prior to the Soyuz launch time, and continue for twenty-five and one-half hours into the mission. During this time period both Soyuz and the Apollo spacecraft will be launched and make maneuvers.

Soviet crewmen and United States crewmen will participate in simulators in their respective countries and both control center facilities will be fully manned.

This is the third time that the two control centers have been tied together with communication lines. The last exercise was conducted in mid-March.

Communications between the two control centers will include, voice, teletype, datafax and television. In each of the control centers, flight directors, flight control personnel, specialists of other country, and mission support personnel required for interaction between the control centers will participate as in the actual flight.

The training will provide interaction between the control center personnel, with crews' participation approaching the actual flight conditions, including contingency situations that could possibly arise in actual flight.

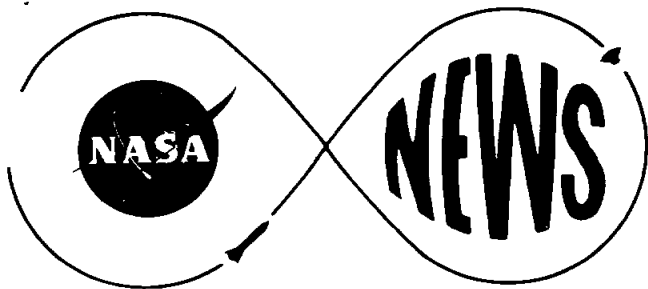


RELEASE NO: 75-42

A second and longer simulation is scheduled to begin at 6:30 a.m. CDT, May 15. This simulation with full crew and control center participation will run for fifty-six hours continuous. The portion of the ASTP flight to be simulated will be from 47:10 to 103 hours ground elapsed time in the mission. This portion of the mission includes rendezvous of Apollo and Soyuz, docking of the two spacecraft, crew transfers, undocking and final separation.

The third and final simulation in this series will be conducted on May 19, beginning at 6:30 a.m. CDT. This is a nine-hour exercise and will include the rendezvous and docking of the Apollo and Soyuz spacecraft. The mission time period to be simulated by crew and flight controllers will be from 47:10 through 56:10 hours ground elapsed time.

Final simulations by the Houston and Moscow control centers and crewmen are scheduled for June 30 and July 1 in preparation for the July 15 launch date.



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**FOR RELEASE:
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RELEASE NO: 75-43

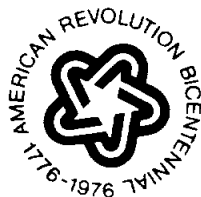
CANADA TO BUILD SHUTTLE REMOTE MANIPULATOR

Canada will develop at its own expense the remote manipulator system (RMS) for NASA's Space Shuttle. The system allows astronauts inside the Space Shuttle Orbiter to deploy or retrieve payloads in space.

Canada will fund the development of the RMS and provide the first flight unit to NASA without charge. Cost for the development of the RMS and delivery of the first flight unit has been estimated at \$30 million. Canada will supply flight units for outfitting the follow-on Orbiters. Costs to the U.S. for these units will not include any charge for Canada's research and development.

Canada will deliver the first flight unit in 1979 for use on early Shuttle orbital flights, scheduled to begin in mid-1979.

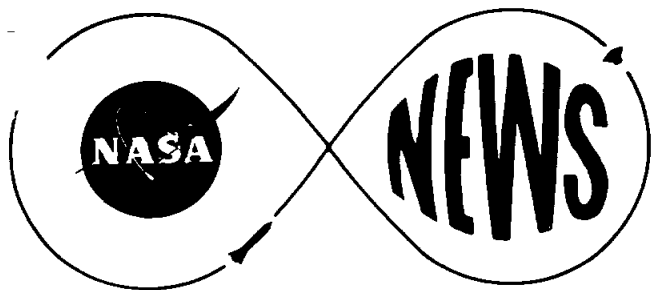
- more -



This arrangement with Canada parallels the one with the European Space Agency under which the Spacelab is being developed with European funds for use on the Space Shuttle.

According to Dr. James C. Fletcher, NASA Administrator, "This is another example of sharing the costs of space programs by the participation of other countries and will result in a savings of \$20 to \$30 million to U.S. taxpayers."

- end -



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**FOR RELEASE:
UPON RECEIPT**

RELEASE NO: 75-44

DR. THOMAS BUDINGER IS ASTP MEDICAL EXPERIMENTER

For Dr. Thomas J. Budinger, medical physicist at Berkeley, what the astronauts see with their eyes closed during this summer's joint US-Soviet space mission may have great potential for diagnosis in humans.

Dr. Budinger is the principal investigator for an experiment which is expected to provide quantitative data on the interactions between the heavy energetic particles which traverse space and human cells. The ASTP Light Flash experiment will use the human eye and special particle detectors to record instances of light flashes caused by particles hitting the eyes light-sensitive cones and rods.

Under controlled conditions two astronauts will act as trained observers "watching" through closed eyes and a light tight mask for particle hits. The third astronaut will monitor and control instruments designed to measure the level of dark adaptation and the cosmic particles near the astronauts eyes. The instruments for this experiment were designed and built at the University of California's Lawrence Berkeley



Laboratory, where Dr. Budinger is the director of medical services.

Dr. Budinger and another colleague of his at the lab, Dr. Cornelius Tobias, were immediately interested in "light flashes" reported by the first Apollo crews and began investigations into the phenomena. They discovered that only heavy ionizing particles like those found in space could cause the flashes.

The discovery of the cause of the light flashes led Dr. Budinger and his colleagues to pursue their studies with an aim towards medical applications of the highly energetic particles here on earth. Among the possibilities for these particles are radiotherapy and neurosurgery where the particles can be directly aimed and controlled so only cancerous cells or specific regions of the brain are destroyed. Doctors at Budinger's facility in Berkeley have been performing exploratory studies with heavy ions for the treatment of disease of the pituitary and certain other body tumors.

Dr. Budinger believes that the potential use of high energy heavy particles for surgery will lead to neurosurgery without discomfort to the patient. Diseases considered as candidates for particle radiotherapy include cerebral palsy, seizures, Parkinson's Disease and other disorders whose cure or affliction can be alleviated by the careful removal of a small portion of the brain.

Dr. Thomas Budinger's present activities are all in the direction of applying mathematics and physics to medical research and medical

problems. Much of his research is centered around human experimentation in three areas: Nuclear medicine and radiation biology; space travel research; and development of measurement devices for radiation therapy.

Dr. Budinger is a 1954 graduate of Regis College of Denver where he received a BS in chemistry; he received his masters in oceanography from the University of Washington. Dr. Budinger received his MD from the University of Colorado in 1964, and his Ph.D. in medical physics from the University of California at Berkeley in 1971.

During the International Geophysical Year, 1957, Dr. Budinger was on active reserve duty with the US Coast Guard and served as the Oceanographic and Meteorology Officer in the Wendell Sea in the Antarctic.

Dr. Budinger's career has taken him under the ice in the Antarctic and Newfoundland as an oceanographer to the cyclotron and bevatron accelerators at Berkeley where he was among the first to research heavy particle interaction with human cell.

He is a member of the Society of Nuclear Medicine, the American Geophysical Union, the American Meteorological Society, the American Association for the Advancement of Science, the New York Academy of Science and other similar organizations.

As an author, Dr. Budinger has published extensively in geophysics where he is known as an expert on ice and iceberg formation in seas, in medicine and biophysics where his speciality is nuclear medicine, and in technical reports where his expertise covers instrumentation for radio-

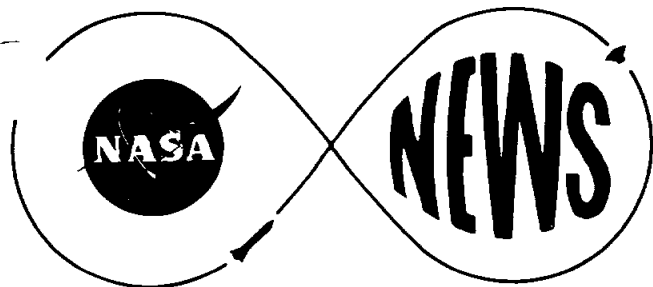
therapy and oceanography documentation methods.

Dr. Budinger isn't the only doctor in the family, either, his wife, Mariam Dearborn Savage, is a practicing pediatrician in the San Francisco area.

Drs. Budinger have three children, Margaret, 9, Valerie, 8 and Tommy, 7. Thomas Francis Joseph Budinger was born in 1932. His father and six sisters and two brothers continue to live in the Illinois and Kansas areas.

- end -

May 16, 1975



**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Charles Redmond
713/483-5111

FOR RELEASE:
5/12/75

ALSO RELEASED AT NASA HEADQUARTERS

RELEASE NO: 75-45

EARTH RESOURCES SYMPOSIUM TO STRESS PRACTICAL APPLICATIONS

Can an Earth resources satellite assist energy companies in locating power plants? The answer is yes. NASA's LANDSATs can also trace strip-mine drainage and reclamation accurately and cheaply. And they can map, measure, and monitor Mississippi River floods, drainage basins, and snow cover in the Rockies. All this and more will be examined and explained at an Earth Resources Survey Symposium to be held in Houston the week of June 8-13.

Hundreds of conferees representing the university and research community, business and industry, and governmental levels from foreign to local will trade experiences and compare notes on the current applications and usefulness of remote sensing technology.

- more -



The symposium - the first to combine remote sensing applications from spacecraft, Skylab and aircraft - is being sponsored by NASA's Office of Applications and the Johnson Space Center, Houston. It is expected to draw upward of 1,500 attendees from the U.S. and about a dozen foreign countries.

Concurrent sessions covering the following general areas are planned from Monday afternoon through Wednesday afternoon: agriculture, geology, water, land use, marine resources, environment, and information systems. Plenary sessions are scheduled Monday morning and Thursday.

Papers being presented will come from nearly every state in the U.S. and from France, Canada, Thailand, Italy, Sweden, Columbia, Germany, India, Mexico, and Zaire.

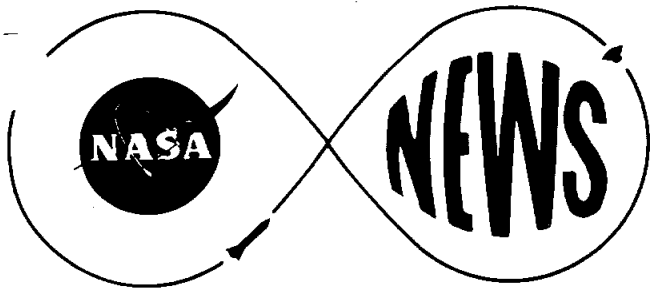
The symposium was planned as a means of bringing together the people who have developed the remote sensing technology and those who are using or could use it, particularly in state government.

Topics include agriculture inventory and management, geological exploration and energy-resource location, water resources management, land-use planning and mapping, coastal and marine management and ocean surveys, and information extraction, sorting, and interpretation.

One paper will deal with educational uses of the data now coming in from the LANDSAT and aircraft Earth observations programs.

The symposium will be held in the Houston Shamrock Hotel. Excursions can be made from downtown Houston to the Johnson Space Center for explanations of the role of remote sensing at JSC. The Center's Earth resources aircraft will be on display at Ellington Air Force Base during the week of the conference.

- end -



**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Milton E. Reim
713/483-5111

FOR RELEASE:
May 13, 1975

RELEASE NO: 75-46

ALSO RELEASED AT NASA HEADQUARTERS

APOLLO SOYUZ WORKING GROUPS HOLD FINAL SESSION IN RUSSIA

The final major meeting of Apollo Soyuz Test Project (ASTP) working groups is now being held in the Soviet Union and will culminate with the ASTP Flight Readiness Review on May 22, 1975.

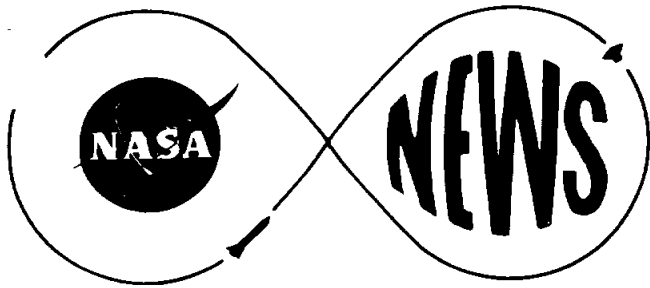
Representatives from the five working groups began departing for Moscow earlier this month and the final group is scheduled to arrive in the Soviet Union on May 17. Fifty-six people from NASA are scheduled to attend these meetings. Robert Aller, Deputy Director of ASTP at NASA Headquarters, will represent the ASTP Program Office.

NASA officials attending include: Dr. George M. Low, Deputy Administrator of NASA; John F. Yardley, Associate Administrator for Manned Space Flight; John P. Donnelly, Assistant Administrator for Public Affairs; Robert J. Shafer, Deputy Assistant Administrator, Public Affairs for Television; Arnold W. Frutkin, Assistant Administrator for International Affairs; Dr. Glynn S. Lunney, U.S. Technical Director for ASTP; and Walter J. Kapryan, Launch Operations Director, Kennedy Space Center.

One more trip by members of the working group for mission plans and operations will be made to the Soviet Union in early June to work out final details for the ASTP mission.

- end -





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Robert Gordon
713/483-5111

**FOR RELEASE:
IMMEDIATE**

RELEASE NO: 75-47

METRO CONTRACT SERVICES AWARDED EXTENSION TO THEIR PRESENT CONTRACT

Metro Contract Services, Inc., 9225 Katy Freeway, Suite 100, Houston, Texas 77024, has been awarded a one-year, \$1,300,000 extension to their present contract for Logistics Support Services at the Lyndon B. Johnson Space Center (JSC), Houston, Texas 77058.

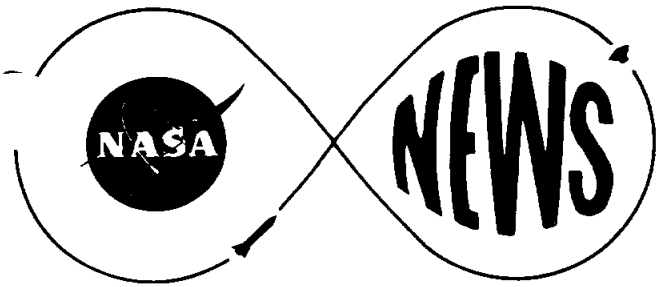
Metro Contract Services is responsible for the identification and cataloging of property, receipt and inspection of property, warehouse operations for stores stock, packing and shipping and transport services at the Johnson Space Center.

The contract is a cost-plus-a-fixed-fee type contract and was originally awarded April 9, 1973, and is now being extended for 1 year, through April 30, 1976. The contractor employs approximately 125 persons.

- end -

May 14, 1975





**NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION
Johnson Space Center
Houston, Texas 77058**

Robert Gordon
713/483-5111

FOR RELEASE:
May 19, 1975

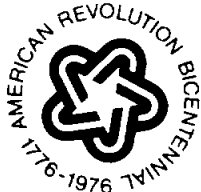
RELEASE NO: 75-48

KENTRON CONTRACT

A contract has been awarded to Kentron Hawaii, Ltd., Continental Operations, for the continuation of engineering support services at the Lyndon B. Johnson Space Center, Houston, Texas 77058, from May 1, 1975, through April 30, 1976.

The contract is a cost-plus-fixed fee/award fee type in the amount of approximately \$1.3 million.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Jack Riley

For Release:

RELEASE NO: 75-49

May 21, 1975
1:00 P.M.

ALSO RELEASED AT NASA HEADQUARTERS

STALL NAMED PAO AT JSC

The Johnson Space Center announced today that Harold S. Stall of Long Beach, California, has been appointed Public Affairs Officer of the center, effective June 9.

Stall, 38, presently is Manager of Corporate Public Relations for Celesco 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.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Robert Gordon

For Release:

RELEASE NO: 75-50

May 22, 1975

KENTRON RECEIVES \$2.9 MILLION CONTRACT

Kentron Hawaii, Ltd., 1720 NASA Road 1, Houston, Texas, has been awarded a cost-plus-fixed-fee/award fee contract to continue technical information and public affairs support services at the Lyndon B. Johnson Space Center, Houston, Texas.

The contract has an estimated cost (including fee) of approximately \$2.9 million, and is for services through April 30, 1976.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Jack Riley

For Release:
UPON RECEIPT

RELEASE NO: 75-51

ALSO RELEASED AT NASA HEADQUARTERS

NOTE TO EDITORS:

FINAL APOLLO CREW PRESS CONFERENCE AND ASTP BRIEFINGS JUNE 6

Briefings on the Apollo Soyuz Test Project mission will be held on June 6, beginning at 8:30 a.m. CDT, at the Johnson Space Center in Houston, Texas.

At 1 p.m. June 6, the final Apollo crew press conference will be held in the Building 2 auditorium. Interview sessions with representatives of major news organizations will follow the press conference.

Briefings will cover ASTP mission profile, recovery, hardware, experiments and Public Affairs Office operations during the mission.

- end -

May 23, 1975



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Jack Riley

For Release:
May 27, 1975
2:00 PM CDT

RELEASE NO: 75-52

A-V CORPORATION AWARDED CONTRACT

A-V Corporation, 2518 North Boulevard, Houston, Texas 77006, has been selected for negotiation leading to the award of a cost-plus-fixed-fee type contract for motion-picture production for the Lyndon B. Johnson Space Center, Houston, Texas.

A-V Corporation's proposed cost and fee is approximately \$384,000 for performing motion-picture production requirements, with an estimated expenditure of 34,242 man-hours, during the initial period of performance beginning August 1, 1975, and ending July 31, 1976. The total expected cost for the 3-year program requiring expenditure of 34,242 man-hours of effort per year is approximately \$1,200,000. The contract award provides employment for approximately 16 employees for a planned 3-year program.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Charles Redmond

For Release:

UPON RECEIPT

RELEASE NO: 75-53

NOTE TO EDITORS:

PRESS ACTIVITIES AT EARTH RESOURCES SURVEY SYMPOSIUM, JUNE 9-13

On June 9 through 13, the Johnson Space Center will host a major earth resources symposium at the Houston Shamrock Hilton Hotel. Over 1,500 scientists, engineers, users and potential users will be attending this event, the first to combine the results from Skylab, aircraft and LANDSAT earth resources programs.

NASA will have two Public Information Specialists at the symposium during the hours of 8:30 a.m. to 6:00 p.m. Symposium concurrent sessions are scheduled from 9:00 a.m. to 4:30 p.m., general sessions are scheduled in the mornings on Monday, June 9, and Thursday, June 12.

Newsmen who expect to cover this event are advised to register at the main registration desk at the conference. Abstracts, pre-print material and agenda will be available for newsmen at the registration desk. A News Briefing Room will be in operation Monday through Friday of the conference week at the Shamrock. One and possibly two press briefings are planned daily Monday through Thursday, however, no transcript services are to be made available for these.

Newsmen requiring administrative services such as copying will have such services made available through PAO.

Private interviews and appropriate art work or photographs will be arranged through PAO as needed.



RELEASE NO: 75-53

- 2 -

For further information, please contact the Johnson Space Center, Public Affairs Office, Houston, Texas 77058, AC 713/483-5111. PAO for this conference are: Charles Redmond, JSC and John Kley, GSFC.

- end -

May 27, 1975

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Charles Redmond

For Release:

RELEASE NO: 75-54

May 30, 1975

WHAT DO YOU DO WITH EARTH RESOURCES DATA?

Remote sensing of earth resources and interpretation of geomorphology are beginning to descend from the lofty regions of pure research to the practical levels of everyday application.

As an example, the search for energy sources has led us from an overwhelming reliance on oil to a growing one with nuclear fuel. However, primary safety considerations for the siting of nuclear power plants, power transmission lines and pipelines require a thorough understanding of local geological faults. The earth resources satellites, LANDSAT I and II, are providing the necessary space color imagery required for delineation of those fault lines.

This example is but one of over a hundred innovative and economical approaches to everyday problem-solving which will be discussed in detail at the June 8-12, Earth Resources Survey Symposium to be held at Houston's Shamrock Hilton. The symposium, sponsored by the NASA Johnson Space Center and the NASA Headquarters Office of Applications, is the first to combine



the results and applications of a wide-ranging selection of data from earth resources aircraft, spacecraft and satellite systems.

Earth resource planners from over two dozen different foreign countries and nearly all of the 50 U.S. states will be gathered in Houston during the conference week to transfer their technology, solutions and ideas to an estimated audience exceeding 1,200 -- representing an international cross-section of scientists, engineers, company managers, teachers, legislators and administrators.

The primary focus of the symposium is on the practical application of earth resources survey technology. In addition, scientific and technological exploratory and research investigations with promising potential applications will be featured.

Special sessions have been scheduled which relate to state, local and regional users, coastal zone management, and user services. The sessions have been structured to include panel discussions and audience interaction.

The symposium consists of a number of mixed general and concurrent technical sessions scheduled so as to permit participants the greatest amount of flexibility in attendance. Concurrent sessions are broken into the following discipline categories: Agriculture; Environment; Geology; Information; Land Use; Marine Resources; and Water Resources.

The General Session on Monday, June 9, opens the conference. Remarks will be made at the opening ceremonies by: Russell Schweickart, Director of User Affairs, NASA; Charles W. Matthews, Associate Adminis-

trator for Applications, NASA; Dr. Werhner von Braun, vice president of Engineering and Development, Fairchild Industries; Dr. Christopher C. Kraft, Director of the Johnson Space Center, NASA; and William E. Stoney, Director, NASA Earth Observations Program.

Concurrent sessions begin on Monday at 12:30 and continue through Wednesday noon. On Thursday the Keynote Address will be presented by the Honorable Caspar Weinberger, Secretary of the Department of Health, Education and Welfare. Thursday afternoon several special papers will also be presented: Remote Sensing Programs of the Interior Department; U.S. Army Corps of Engineers Programs; the NASA Large Area Crop Inventory Experiment (LACIE); International Aspects and Potentials of Earth Resources Programs; and the Future Remote Sensing Programs.

Organizations planning exhibits at the symposium include many old-line remote sensing organizations and a surprising assortment of newer companies. The exhibitors include: Lockheed Electronics Company; the Earth Resources Institute of Michigan (ERIM); the Earth Satellite Corporation; Purdue University; Grumman Aerospace Company; Itek Corporation; Bausch and Lomb Company; NASA; Eastman Kodak Company; the American Society of Photogrammetry; the General Electric Company; Martin Marietta; the Bendix Company; Hughes Aircraft; IBM; Honeywell Incorporated; and many others.

In addition to activities at the Shamrock, the conference coordinators have also arranged for two daily tours of the Johnson Space Center.

A synopsis of selected symposium papers follows:

A Minnesota team will present material on the use of LANDSAT data used by the state to economically map open-pit mining and mineland reclamation projects in northern Minnesota. The U.S. Army Corps of Engineers will be addressing the subject of economically-produced environmental quality maps produced through use of LANDSAT imagery.

Several different organizations and presenters will be discussing the impact of remote sensing on the economy and environmental studies of Alaska. Spacecraft and satellite images are the basis for a statewide survey being done in Alaska concurrent with the trans-Alaska pipeline.

The Canadian Forest Service will describe the advantages of using remote sensing data in estimating clear-cut areas of heavily forested regions of the British Columbia countryside.

The level of defoliation experienced by wooded areas following insect infestations will be the subject of a paper from a team of Pennsylvania forest experts. The LANDSAT data has proven to be an accurate means of early estimation of tree damage according to their paper.

Both the General Electric Company, manufacturers of an advanced image enhancement system for remote sensing data, and NASA will be discussing the probability of using remotely sensed data to accurately and economically predict crop yields. NASA will be discussing the LACIE project during a special paper on Thursday.

NASA will also be discussing the applications of remote sensing in improving health climates for both man and animals. In separate papers

NASA will present data on an advanced method of pinpointing an airborne pest to reduce the cost of the sterile-mate method of extermination and will also present a paper on the use of high altitude imagery to predict health levels in urban areas.

The state of Pennsylvania will be discussing the use of satellite data to track acid-mine drainage throughout the Pennsylvania strip-mine regions and how digital techniques can make this method even more effective.

In a paper from the Virginia State Water Control Board, the state explains the usefulness of LANDSAT data in determining water quality and in assessing locations for permanent in-situ water monitors.

The state of Kansas will address the vast area of decision-making in a paper they have prepared explaining the role of remote sensing in the state government. In the past year, Kansas says the use of remotely sensed data has assisted in plans for an Interstate highway completion and the cancellation of the construction of a planned large reservoir.

The state of Georgia will explain their system for using remote sensing data in the monitoring of mined-land reclamation--now required by Georgia law.

The University of Arkansas will demonstrate the practicality of predicting landslide prone areas and the impact this has on highway construction and planning. This paper stresses the economic advantages of prevention stating that the cost of remote sensing data and the interpretation needed to find fault zones is--instance-for-instance--cheaper than reclamation and reconstruction following a land slide.

The USGS will present a paper on the application of LANDSAT multi-band data in the preparation of large-area photo mosaics of Saudi Arabia to assist in that country's economic development.

The state of Ohio will explain their statewide land-use inventory and the economical manner by which it can be updated using LANDSAT data. The state will be talking "dollars-and-cents" when it compares their 15-year-old land-use master map which cost the state more in 1960 than the update will cost in 1975.

NASA Goddard and GE will present a joint paper on a hydrologic mapping project involving the Patuxent River watershed basin in peninsular Maryland. According to this paper, hydrologic theme maps were produced which compared with the existing watershed maps at a theme-mapping cost of about \$4.30/kilometer squared.

Similarly the Department of Water Resources, California, will present a paper in which the state compares conventional and remote sensing means of monitoring water resources. California reports that the satellite-acquired data is more cost-effective for certain kinds of image collecting considered too expensive for conventional methods.

The Weather Bureau, NOAA, will present a paper describing the applications of LANDSAT data to snow mapping, claiming that the accuracy with which the areal extent of snow can be delineated using satellite imagery is totally unprecedented. This has tremendous implications for agriculture in the American Mountain West and in the India-Pakistan-China area of Asia.

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Charles Redmond

For Release:

RELEASE NO: 75-55

June 3, 1975

BIOPHYSICIST HAS ASTP MEDICAL EXPERIMENT

Dr. Horst Bucher, a biophysics professor at the University of Frankfurt, Germany, adds yet another international flavor to the July Apollo-Soyuz Test Project.

One of the scientific experiments to be flown during ASTP is a biological container designed to measure the effect of high energy particles on living matter. The Biostack, as the containers are called, will be part of a combined medical/applications/space science package of experiments which the Americans and Soviets will be performing during the historic July mission.

The international aspect of ASTP is enhanced by the scientific team Dr. Bucher has assembled to study the results of the Biostack experiments. Scientists from the United States, the Federal Republic of Germany and France will be working on the two Biostack containers when they are returned in the Apollo spacecraft.



Dr. Bucher is no newcomer to medical space research either. His Biostack I was flown on the Apollo 16 mission and his Biostack II was flown aboard America's first space station-Skylab.

On Biostack III, Dr. Bucher brings to the mission considerable background understanding of the effects of space particles on living cells.

According to results obtained on Biostacks I and II, Dr. Bucher says there is considerable radiation risk for non-replaceable cells when flown in space. These cells include certain egg and seed cells and certain cells in larger organisms such as neurons and, as tested on Apollo 16 and Skylab, rods and cones in eyes.

Another result from previous experiments has been the finding that standard statistical analysis of radiation exposures are not valid for the extremely energetic particles found above the earth's atmosphere. Dr. Bucher has stated that for certain pathogenic effects, statistical methods would have been invalid in predicting cellular damage evidenced on the previous experiments.

Dr. Bucher was instrumental in establishing the Biophysics Research Working Group within the University of Frankfurt in 1965. This group has done considerable research in biophysical problems using ultraviolet irradiation and specially designed optical devices.

Dr. Bucher is a graduate of the Max-Planck Institute for Biophysics where he received his doctorate. He was born in Frankfurt on March 27, 1926.

One of the Biostack devices is a cylinder filled with living matter composed of plant seeds and fish eggs separated by nuclear track detectors. The track detectors make it possible to correlate particle hits with cell damage. The other Biostack container is an active radiation detector which will be used to provide further correlative data for particle hits.

- end -

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Terry White

For Release:
June 4, 1975

RELEASE NO: 75-56

JSC OPENS NEW LIFE SCIENCES LIBRARY

Information on how man responds to space flight has been collected and cataloged in the Space Life Sciences Archival Library which opened at NASA Johnson Space Center June 2. Housed in what was formerly the Apollo Lunar Receiving Laboratory, the Library contains data on biomedical experiments, investigations and hardware gathered in manned space flight programs.

"Although this central repository will ultimately contain information from earlier and future manned space and associated life sciences endeavors," said JSC Life Sciences Director Richard S. Johnston, "the archives presently consist of a comprehensive compilation of data obtained during the Skylab program---our most recent and extensive manned space flight experience."

The medical information stored in the Library is retrieved for the reader and viewer through a computerized system with video, microfilm and computer terminal readers and printers.

Access to the Library is available to public, private and governmental life sciences investigators.

- end -



NASA-JSC

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Terry White

For Release:

RELEASE NO: 75-57

June 5, 1975

JSC-AFGE CONTRACT

Representatives of the NASA Johnson Space Center 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 Dr. 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.



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White

For Release:

RELEASE NO: 75-58

June 23, 1975

WACHENHUT CONTRACT RENEWED

Wackenhut Services, Inc., of Coral Gables, Florida, has been awarded a cost-plus-fixed-fee/award fee contract to continue protective support services at the Lyndon B. Johnson Space Center, Houston, Texas. The contract has an estimated cost (including fee) of approximately \$1.6 million, and is for services through June 30, 1976.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Terry White

For Release:

RELEASE NO: 75-59

June 24, 1975

ASTP CREW BEGINS MEDICAL ISOLATION

Apollo crewmen Thomas P. Stafford, Donald K. Slayton and Vance D. Brand, Tuesday, began their 21-day preflight medical isolation at the Johnson Space Center to head off the likelihood of infections and illnesses. The Apollo crew is completing training for the July 15 Apollo-Soyuz Test Project mission in which they will meet a Soviet Soyuz spacecraft in orbit for two days of joint operations and experiments.

Medical isolation for the three---called the Flight Crew Health Stabilization Plan---began at noon Tuesday. The Apollo crew is limited to special quarters at the Center and to training areas where access is restricted.

Training specialists and other co-workers involved in preparing the Apollo crew for the ten-day flight were medically screened and must wear surgical masks when near the crewmen.

The Apollo crew will remain at Johnson Space Center until Sunday July 13, when they will fly to NASA Kennedy Space Center, Florida, for the final two days of preflight launch preparations.



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

For Release:

June 25, 1975

Terry White

RELEASE NO: 75-60

ALPHA CONTRACT EXTENDED

Alpha Building Corporation, of Houston, Texas, has been awarded a cost-plus award fee contract to continue construction support services at the Lyndon B. Johnson Space Center, Houston, Texas. The contract has an estimated cost and fee of \$1,512,000, and is for performance of work through June 27, 1976.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Milton Reim

For Release:

RELEASE NO: 75-61

AM/June 27, 1975

FINAL JOINT US/USSR ASTP SIMULATIONS BEGIN THIS WEEKEND

The final joint US/USSR Apollo-Soyuz Test Project (ASTP) simulations are scheduled to begin Sunday, June 29, 1975, at 6:30 a.m. CDT, with flight crews and flight controllers in Houston and the Soviet Union participating.

Simulations will pickup the count at 47 hours and 10 minutes into the flight and continue for 56 hours, covering the joint portion of the mission. The simulations will include rendezvous, docking, crew transfers and joint crew activities, undocking and separation of the two space craft.

Apollo crewmen will be in their simulators here in Houston, and the Soyuz crewmen will man simulators in the Soviet Union. Both the Houston and Moscow Mission Control Centers will be fully staffed for the simulations.

No Soviet flight controllers will be in Houston for these simulations nor will U.S. flight controllers be in Moscow. Flight controllers from the US and USSR will depart for the others' control centers prior to the July 15 flight to be present for the conduct of the mission.

Soyuz is scheduled to be launched at 7:20 a.m. CDT on July 15, 1975, and Apollo will be launched at 2:50 p.m. CDT the same day. Rendezvous of the two spacecraft will occur on July 17, and two days of joint activities will follow.

- end -



News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

William J. O'Donnell

For Release:
June 29, 1975

RELEASE NO: 75-62

NO INTERFERENCE BETWEEN SOYUZ 18/SALYUT 4 AND APOLLO-SOYUZ FLIGHTS,
TECHNICAL DIRECTORS AGREE

During the conduct of final, joint simulations between the USA and USSR mission control centers, the Apollo/Soyuz Technical Directors, Professor K. D. Bushuyev and NASA's Dr. Glynn Lunney, discussed the subject of any possible effects if the manned Salyut 4 mission were still flying during the ASTP mission. Professor Bushuyev made the following statements:

- 1) There has been no final decision on continuing the Soyuz 18/Salyut 4 mission to overlap the ASTP mission.
- 2) However, because of the possibility, he has been involved in detailed, internal discussions to assure that there would be no effect on or interference with ASTP and assured Dr. Lunney that there would be none.
- 3) Specifically, the USSR is using different control centers for the two missions and different personnel are assigned to these control centers. Bushuyev said there are no possible circumstances foreseen for nominal or contingency problems which would cause ASTP-dedicated personnel to be diverted from the ASTP mission. Further, the ASTP mission has been assigned priority if the two missions would simultaneously be within the zone of coverage of a remote USSR tracking station.



RELEASE NO: 75-62

- 2 -

At the end of this discussion, Dr. Lunney agreed that, if the two missions were to fly concurrently, the provisions described by Professor Bushuyev were adequate and satisfactory to assure that there would be no effect or interference with the ASTP mission.

- end -

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Robert V. Gordon

For Release:

July 1, 1975
2:00 p.m.

RELEASE NO: 75-63

IBM AWARDED AVIONICS SOFTWARE CONTRACT

The International Business Machines Corporation (IBM) of Gaithersburg, MD, today was awarded a \$46.8 million contract by the National Aeronautics and Space Administration for development and testing of the Space Shuttle avionics software system.

The cost-plus-award-fee contract calls for IBM to design, develop, test and maintain the avionics software for the data processing system on the Space Shuttle Orbiter. The avionics system provides electric and electronic systems for guidance, navigation, and control capability; communication; computation; displays and controls; instrumentation; and electrical power distribution and control for the orbiter, the external tank and the solid rocket boosters. Software consists of computer type programs utilized in the implementation and operation of the avionics system.

The Space Shuttle is being designed as a reusable space transportation system. The main components consist of an external fuel tank, two reusable solid rocket boosters and a reusable orbiter which will be launched into orbit by its three main engines and two solid boosters.

The orbiter will carry a crew of up to seven astronauts and scientists and be capable of carrying a payload of up to 65,000 into low earth orbit. The orbiter will reenter the earth's atmosphere and land on a runway like a conventional jet aircraft.

- more -



RELEASE NO: 75-63

- 2 -

The Space Shuttle program is scheduled to be operational by the early 1980's.

The basic effort of the IBM contract will be conducted in Houston for the NASA Johnson Space Center and it is anticipated IBM will employ as many as 270 people in furnishing the avionics software for the data processing system.

- end -

News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Charles Redmond

For Release:

July 10, 1975

RELEASE NO: 75-64

AMERICAN, SOVIET EXPERIMENTS ON ASTP CONCERN FISH

Both the United States and the Soviet Union will be performing experiments aboard the Apollo-Soyuz Test Project aimed at determining the effects of weightlessness on the development of fish embryos.

The Soviet experiment, to be flown and returned aboard the Soyuz, will test the development of water animals being grown in zero-G. This experiment will use Cardinal (Danyo Rerio) fish roe in miniature aquariums. At a certain development stage the fish will be preserved and returned to Earth where they will be tested to determine the extent, if any, of genetic change in the Cardinal fry.

The American experiment will use Killifish (*Fundulus heteroclotus*) fry and hatchlings. The American experiment is a follow-on to similar Skylab experiments.

Aboard Skylab, fish launched alive were found to swim in uncontrolled tight circles whereas fry born aboard Skylab swam in normal patterns and apparently weren't affected by the lack of gravity.



Upon return to Earth, the American Killifish will be dissected and examined with optical and electron microscopes to determine the extent of alterations to their nervous and sensory systems.

Of particular interest to the American principal investigators is the examination of the fish "otolith." Otoliths are miniscule crystals of calcium located in the inner-ear canals of man and other animals. Because of the three-axis shape of the canals, the position within each canal of the otolith signals the brain with information as to the relative position of the animal's body. This balance mechanism produces most of the non-visual cues by which animals maintain their erect position and recover from falls.

On Skylab, the fish otolith experiment indicated otoliths may be partially arrested in their development if development is continuing in a weightless condition. The Killifish and Soviet experiments have possible implications for future missions in which developing biological systems are exposed to weightlessness during critical periods of their development.

Principal investigator for the Killifish experiment is Dr. H. William Scheld, Johnson Space Center, Houston, Texas.

- end -

News

National Aeronautics and
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Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

RELEASE NO: 75-65

For Release:

ALSO RELEASED AT NASA HEADQUARTERS

July 10, 1975

GRIFFIN, ALLEN GET NEW NASA ASSIGNMENTS

Gerald D. Griffin, NASA Assistant Administrator for Legislative Affairs, has been named to the newly created post of Deputy Associate Administrator (Operations) in the Office of Manned Space Flight, effective August 1.

His successor in the Office of Legislative Affairs will be Scientist-Astronaut Dr. Joseph P. Allen, who is currently assigned to the Astronaut Office--science and applications, at Johnson Space Center in Houston.

In his new position, Griffin will plan for the most economical and flexible operation of the Space Shuttle and Spacelab.

The reusable Space Shuttle will become operational in 1980, and will provide routine, easy access to space for all civilian and military payloads. Mr. Griffin will assure that the Shuttle serves all users of space -- commercial as well as Government, U.S. and foreign -- in the most effective way.



Griffin was named to the Legislative Affairs post in April 1973. He came to Washington from JSC where he had been flight director on all 11 Apollo missions and lead flight director on Apollos 12, 15 and 17.

A native of Athens, Texas, Griffin joined JSC (then the Manned Spacecraft Center) in 1964 and was named a flight director in 1968.

Following his graduation from Texas A & M University in 1956, with a Bachelor of Science degree in engineering, Griffin spent four years as a flying officer in the U.S. Air Force. He served as an aerospace engineer with Lockheed Missile and Space Co. and General Dynamics before joining NASA.

He was awarded NASA's Exceptional Service Medal for his work on Apollos 12 and 15; the Presidential Medal of Freedom Group Achievement Award for Apollo 13; and the NASA Headquarters Creative Management Award in May 1975.

Dr. Allen was selected as a scientist-astronaut by NASA in August 1967, and served as mission scientist while a member of the astronaut support crew for Apollo 15. He has served as a staff consultant on science and technology to the President's Council on International Economic Policy.

Born in Crawfordsville, Indiana, Allen received a Bachelor of Arts degree from DePauw University in 1959, and a Master of Science degree and a Doctorate in Physics from Yale University in 1961 and 1965, respectively. He studied in Germany in 1959-60, as a Fulbright scholar.

Before joining NASA, Dr. Allen was a research associate in the Nuclear Physics Laboratory at the University of Washington. He was a staff physicist at Nuclear Structure Laboratory at Yale University in 1965 and 1966 and, from 1963 to 1967, served as a guest research associate at the Brookhaven National Laboratory.

Dr. Allen's awards include: NASA Exceptional Scientific Achievement Medal; a NASA Group Achievement Award in recognition of contributions to the Apollo 15 Lunar Traverse Planning Team; the 1972 Yale Science and Engineering Association Award for Advancement of Basic and Applied Science; the DePauw University Distinguished Alumnus Award; Outstanding Flying Award, Class 69-06, Vance Air Force Base.

- end -

News

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Milton E. Reim

For Release:
Upon Receipt

RELEASE NO: 75-66

LEWIS LEADS ASTP FLIGHT TEAM IN MOSCOW

Charles R. Lewis of Lawton, Oklahoma, is part of the team of engineers, technicians and support personnel at the Lyndon B. Johnson Space Center in Houston, Texas, taking part in the joint Apollo-Soyuz Test Project (ASTP) space flight which is scheduled to orbit the earth in July 1975.

Lewis is the visiting Flight Director, heading up the team of flight controllers in the Moscow Mission Control Center in the Soviet Union. He and his team of eight controllers departed on July 11 for Moscow where they will remain for the duration of the mission.

In addition to being an ASTP Flight Director, Lewis is Chief of the Communications and Data Systems Branch in the Flight Operations Directorate.

Lewis is a 1957 graduate of Cameron State Junior College and a 1961 graduate of New Mexico State University with a BS degree in electrical engineering.

His parents, Mr. and Mrs. Cecil Lewis reside at 2703 N. 22nd in Lawton, Oklahoma.

Lewis is married to the former Carolyn Gross of Lawton and they have two children.

- more -



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Two manned spacecraft will be launched into Earth orbit July 15 -- one from Merritt Island, Florida, and the other from Central Asia -- to bring into reality the May 1972 agreement between the United States and the Soviet Union to work toward a common docking system for future generations of spacecraft.

The nine-day Apollo Soyuz Test Project mission will mark the first time that manned spacecraft of two nations have met in space for joint engineering and scientific investigations.

First to go into space will be the Soviet Union's Soyuz spacecraft with Commander Aleksey Leonov and Flight Engineer Valeriy Kubasov aboard, lifting off at 7:20 a.m. Central Daylight Time July 15 from the Soviet Cosmodrome at Baykonur. Seven and a half hours later, at 2:50 p.m. Central Daylight Time, Apollo will lift off from Kennedy Space Center Launch Complex 39B with Commander Thomas P. Stafford, Command Module Pilot Vance Brand and Docking Module Pilot Donald K. Slayton aboard.

Control Centers in Houston and Moscow will exercise joint ground control over the mission through exchange of communications and tracking data as a further means of fulfilling the agreement on space cooperation.

Communications between the Apollo spacecraft and Mission Control-Houston and between the docked Apollo Soyuz spacecraft and both control centers will be enhanced by use of a communications satellite for real-time relay of voice, data and television signals. Applications Technology Satellite 6 (ATS-6), in synchronous orbit 35,900 km (22,260 mi.) above Kenya, will provide communications coverage for 55 percent of each Apollo and docked Apollo Soyuz orbit through Apollo's steerable highgain antenna. This will be the first time a satellite is used to relay communications between an orbiting manned spacecraft and ground stations. Both live and recorded color television will be relayed from Apollo to keep flight control teams and the general public informed on mission activities.

- more -

The primary ASTP engineering objective is to develop a universal docking system suitable for future joint activities by manned spacecraft of different countries. Operational aspects of docked spacecraft attitude control, inter-spacecraft communications and ground-control coordination also will be studied during the flight.

Scientific investigations to be performed during the flight fall into three general categories: space sciences, life sciences and applications.

Flight crews of both nations have received extensive training in the language of the other crew. During joint mission periods, the American crew will communicate with their Soviet counterparts in Russian, and the cosmonauts will reply in English. Crew members will communicate with their respective control centers in their native tongues.

Apollo Commander Thomas P. Stafford has spent 290 hours, 15 minutes in space aboard Gemini 6 and 9, and Apollo 10 and has achieved five rendezvous. It is the first space flight for Slayton and Brand.

Soyuz Commander Leonov flew in Voskhod 2 March 18, 1965, and was the first person to perform a space walk. Kubasov flew on Soyuz 6, October 11-16, 1969.

Apollo will rendezvous with Soyuz July 17, and docking will take place about 11:15 pm Central Daylight Time above Germany. During two days of docked operations, the crews will visit each others' spacecraft in four different transfers through the docking module. They also will perform joint scientific experiments and share meals.

The two spacecraft will separate for the final time at about 10:01 a.m. Central Daylight Time July 19. Soyuz will deorbit at 5:06 a.m. Central Daylight Time and land in the Soviet recovery area at 5:51 a.m. Central Daylight Time July 21 -- some 42 hours after Apollo's "Do svedanya" (Good-bye).

RELEASE NO: 75-66

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Following a deorbit maneuver over the Indian Ocean, the Apollo command module will splash down at 4:18 p.m. Central Daylight Time July 24, in the Pacific Ocean 555 kilometers (345 miles) west of Hawaii. Recovery ship is the U.S.S. New Orleans, a helicopter carrier.

- end -

July 13, 1975

News

National Aeronautics and
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AC 713 483-5111

RELEASE NO: 75-67

For Release:
Upon Receipt

APOLLO ASTP LAUNCHED WITH GREAT PRECISION

Flight data reveals that the Saturn vehicle which placed the ASTP Apollo astronauts into Earth orbit performed with great precision, as had virtually all of its 31 predecessors.

The Saturn IB that was launched yesterday was the 32nd Saturn launch vehicle to go into space since the initial launching October 27, 1961. No further launchings of the Saturns--the rockets that have done the heavy space work for the U.S.--are scheduled.

The life of SA-210 came to an end at 8:45 p.m. CDT yesterday as the upper stage and instrument unit were deliberately plunged from orbit into a remote Pacific area.

Engineers and scientists of the Marshall Space Flight Center, where the Saturn was conceived and managed through its years of yeoman duty, performed the calculations that "deorbited" the final rocket stage after the conclusion of its work.

Preliminary appraisal of the data telemetered from the vehicle shows that all functions were performed essentially as planned. The first stage burn time was .4 seconds longer than predicted. The second stage burn time was 1.9 seconds longer than planned. All instrument unit functions were as planned.



RELEASE NO. 75-67

Time in seconds

<u>Planned</u>	<u>Actual</u>	<u>Event</u>
0	0	Liftoff Signal
9.8	9.8	Initiate Pitch/Roll Maneuvers
128.8	128.8	Arrest Attitude Commands
135.9	136.1	Inboard Engine Cutoff
139.3	139.7	Outboard Engine Cutoff
140.6	141.0	Separation Signal
142.0	142.4	J-2 Engine Start Command
152.6	153.0	Jettison Ullage Rocket Motors
171.3	171.7	LES Jettison
174.3	174.7	Command Active Guidance Initiation
583.0	585.3	Guidance Cutoff Signal
593.2	595.5	Orbit Insertion

News

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John McLeaish

For Release:

RELEASE NO: 75-68

July 20, 1975

ASTP NEWS MEDIA ACCREDITATIONS AT JSC SECOND HIGHEST

Media accreditation for coverage of the Apollo Soyuz flight from the Johnson Space Center has now exceeded that of any previous U.S. manned space mission except Apollo 11, which landed on the moon six years ago today.

Six hundred ninety-three newsmen, including 197 foreign media, from twenty-seven countries, have been covering the joint flight from the JSC News Center. Twenty-four Russian correspondents are represented in this group. Total news accreditations are expected to exceed 700 before the Apollo portion of the mission ends.

Apollo 11 was covered by 1095 reporters at JSC. This number included 402 foreign newsmen from 40 countries.

Other manned missions heavily covered at JSC include: Apollo 17, with 659 accreditations; Apollo 14, with 657 accreditations; and Apollo 13, with 656 media accredited. All were manned lunar missions.

- end -



News

National Aeronautics and
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Lyndon B. Johnson Space Center

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Jack Piley

RELEASE NO: 75-69

For Release:

August 19, 1975
3:00 p.m. CDT

ASTRONAUT SLAYTON TO UNDERGO SURGERY

Astronaut Donald K. Slayton will enter M.D. Anderson Hospital in Houston's Texas Medical Center Monday for exploratory lung surgery.

A small lesion has been detected in the lower periphery of his left lung. The consensus of all physicians involved is that the lesion is not the result of inhalation of nitrogen tetroxide gas during the Apollo-Soyuz Test Project mission. Surgery is scheduled for Tuesday.

During the recovery of the Apollo ASTP astronauts from the gas inhalation, chest x-rays revealed complete clearing of lung infiltrates seen immediately postflight. However, detailed examination of Slayton's x-rays indicated a 4-millimeter discrete shadow.

The medical team was not convinced that it was an abnormal finding because the shadow was obscured by superimposed rib structure and could represent normal blood vessels. Slayton's preflight x-ray was reviewed and it was determined that the shadow was barely discernable in it.

Based on this evidence, specialized x-rays called tomograms were obtained on August 6, to determine whether the shadow was a lesion or part of normal lung structure. The tomograms revealed a lesion about the size of a pencil eraser, and the physicians recommended that Slayton's condition be reevaluated upon his return to Houston.

- more -



Consultation with chest specialists at the Texas Medical Center confirmed the presence of the lesion, and they recommended exploratory surgery as soon as possible.

Discussions have been initiated with the Soviet Union with regard to the need to make adjustments in planned postflight itineraries to permit Slayton's participation in both tours. The astronauts and cosmonauts had been tentatively scheduled to begin a 2-week tour of 11 U.S. cities on September 1, followed by a two-week tour of the Soviet Union beginning September 22.

- end -

Note to Editors: Slayton and Dr. Arnauld E. Nicogossian, ASTP crew physician, will hold a news briefing at 11 a.m. CDT tomorrow, August 20, in Room 135, Building 2, Johnson Space Center.

News

National Aeronautics and
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Lyndon B. Johnson Space Center

Houston, Texas 77058
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Jack Riley

For Release:
August 22, 1975

RELEASE NO: 75-70

CARR, POGUE TO RETIRE FROM MILITARY SERVICE

NASA Astronauts Gerald P. Carr and William R. Pogue will retire from military service September 1.

Carr, 43, a Marine Corps colonel, will remain with NASA as a civilian astronaut. Pogue, 45, an Air Force colonel, will leave NASA. Carr has 22 years and Pogue has 24½ years of military service.

Carr was commander and Pogue was pilot of Skylab 4, the longest manned space flight to date. With Dr. Edward G. Gibson, science pilot, they share the world record for individual time in space of 2017 hours, 15 minutes, 32 seconds.

"The achievements of the American space program over the past 17 years have been a great source of pride and satisfaction to me, and I shall always be grateful for the opportunity I had to share in part of that effort," Pogue said.

"I am retiring to accept a position as vice president with the High Flight Foundation of Colorado Springs," he said. High Flight is an evangelistic organization founded by James B. Irwin, who retired as an astronaut in 1972.

Pogue is married and has three children. The family will continue to reside in the Clear Lake area.

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Carr is married and has six children. He and Pogue were selected as NASA astronauts in April, 1966.

Pogue's departure will reduce the number of NASA astronauts to 31.

The Skylab 4 mission was launched November 16, 1973, and concluded February 8, 1974. The crew successfully completed 56 experiments, 26 science demonstrations and 13 student investigations during 1214 revolutions of the earth. Carr, Pogue and Gibson also acquired extensive earth resources observations data using hand-held cameras and Skylab's earth resources experiment package camera and sensor array. They logged 338 hours of operation of the Apollo Telescope Mount which observed the sun's processes.

- end -

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National Aeronautics and
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Terry White

For Release:

August 27, 1975

RELEASE NO: 75-71

STAFFORD TO COMMAND USAF FLIGHT TEST CENTER

Maj. Gen. Thomas P. Stafford, veteran of four space flights, will leave his assignment as a NASA astronaut effective November 1, 1975, to become commander of the US Air Force Flight Test Center at Edwards Air Force Base, California.

"I am looking forward to continuing my Air Force career using my background in flight test," said Stafford. "The experience gained in Gemini, Apollo and Apollo-Soyuz has a tremendous commonality with test and development of new aircraft."

"The Flight Test Center will have a major role in supporting the Space Shuttle in its approach and landing tests and in its initial return and landing from orbit in the early developmental flights. I am also looking forward to working in the development of new aircraft, which include the B-1, F-15, F-16, A-10, C-14, and C-15."

Stafford is a graduate of the USAF Experimental Flight Test School at the Center he is to command. He was stationed at the Center between 1958 and 1962 and became chief of the Aerospace Research Pilot School performance branch and served as an instructor in flight test training. He was responsible for supervising the student test pilot flying curriculum and co-authored two textbooks: Pilot's Handbook for Performance Flight Testing and Aerodynamics Handbook for Performance Flight Testing. He has logged more than 6300 aircraft flying hours, of which almost



5200 hours are jet time.

Stafford, 44, was commander of the Apollo crew for the joint United States-Soviet Union Apollo-Soyuz Test Project mission July 15-24, 1975, in which spacecraft of both nations were docked for two days of joint experiments and activities.

Selected as a NASA astronaut in the second group in September 1962, Stafford flew on Gemini 6, commanded Gemini 9, and was commander of the Apollo 10 mission --- a lunar orbit flight in which Stafford and Eugene Cernan flew the lunar module "down among the boulders" to within eight miles of the moon's surface in a rehearsal of the six manned lunar landings that were to follow. He was head of the astronaut group for two years and was later appointed deputy director of flight crew operations. Stafford has a total 507 hours, 43 minutes in space and has flown six space rendezvous.

A native of Weatherford, Oklahoma, Stafford attended public schools there. He graduated from the US Naval Academy in 1952 but took his commission in the US Air Force. He was a fighter-interceptor pilot at bases in the US and Germany before being assigned to the USAF Experimental Flight Test School in 1958.

Stafford is a fellow of the American Astronautical Society and a member of the Society of Experimental Test Pilots and the Explorers Club.

He is married to the former Faye L. Shoemaker of Weatherford, Oklahoma. The couple has two daughters, Dionne 21, and Karin 18.

NASA News

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For Release:
September 2, 1975

RELEASE NO: 75-72

NASA SPACE SCIENCE PROGRAM AT _____

_____ will host the National Aeronautics and Space Administration's mobile lecture-demonstration program, which will be conducted by Mr. Dennis Ammon. Mr. Ammon is assistant professor at California State University, representing Johnson Space Center, Houston, Texas. He is serving as a Space Science Education Specialist for NASA.

Mr. Ammon received his Bachelor of Arts degree from the University of Northern Colorado, has taught both science and aerospace in public schools, and is a former faculty member of Oklahoma State University. He is a private pilot, a member of Aircraft Owners and Pilots Association, Colorado Education Association, and the National Education Association. Mr. Ammon's home is in Colorado Springs, Colorado.

- more -



The Space Science Education Project is a lecture-demonstration program designed to acquaint the educational community and the general public with the role of the National Aeronautics and Space Administration in the exploration of air and space.

The lecture-demonstrations are conducted by space science specialists who are teachers authoritatively informed on the space sciences and the activities of NASA. They present assembly programs and work in the classroom with the teachers and students.

A typical assembly program lasts approximately 50 minutes and includes discussions and demonstrations of aeronautics, rocketry, propulsion systems, satellites, probes, orbits, human factors, communications and manned space flight.

The programs are presented without charge to the requesting school or organization.

Following the auditorium program, the lecturer is available for classroom visits for further indepth discussions of space topics directly related to specific disciplines or to the special interests of the students.

News

National Aeronautics and
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Charles Redmond

For Release

September 12, 1975

RELEASE NO: 75-73

NASA SELECTS SITE FOR REMOTE LUNAR STORAGE FACILITY

The National Aeronautics and Space Administration has selected Brooks Air Force Base, San Antonio, as the site of a remote storage facility for a portion of the lunar material brought back from the moon by the Apollo astronauts.

Except for lunar samples out on display or under study, all of the material is stored at the Johnson Space Center curatorial facility, Houston.

The Brooks facility is expected to be ready for the samples by the end of December with sample transfer expected to occur in early 1976. The Air Force and NASA are working to finalize plans and host-tenant agreements for use of the facility.

The 382 kilograms (843 pounds) of material brought back from the moon is considered a priceless national resource. Selection of the Brooks site for a remote storage facility follows a search by NASA for an additional location which would provide convenient, secondary facilities for safekeeping 10-20 percent of the lunar samples.

The samples will be kept in what is termed "dead storage." This type of storage, and the storage methods used at JSC presently, allow the scientific community to keep the lunar material in pristine condition for analysis by future generations of

- more -



scientists. The additional storage facility will also safeguard against any catastrophic event affecting the material at the main JSC storage site. JSC officials liken the situation to the adage of "not putting all your eggs in one basket."

The samples to be placed in the Brooks facility represent a generalized cross-section of all the lunar material collected during the Apollo 11 through 17 missions. These samples will include lunar highland and maria material, soil and breccia samples and core samples.

The samples will be kept in stainless steel containers filled with dry, pure nitrogen gas. The nitrogen prevents the samples from oxidizing, absorbing water, or combining with any of the constituent chemicals in the atmosphere. These containers, in turn, will be stored in a vault very similar to the curatorial facility vault now in use at JSC.

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Jack Riley

For Release:

September 12, 1975
2:00 p.m. CDT

RELEASE NO: 75-74

ASTRONAUT DUKE TO LEAVE NASA

Astronaut Charles M. Duke, Jr., announced today that he will leave NASA on January 1, 1976.

He said his plans for the future will be announced soon and that he will resign from the Air Force after 18 1/2 years service. Duke, 39, is a colonel.

Duke logged 265 hours, 51 minutes in space as lunar module pilot of Apollo 16, April 16-27, 1972. He and Astronaut John W. Young landed in the Descartes region of the moon for a 71-hour, 14-minute stay, including three surface explorations of the lunar highlands totaling 20 hours, 15 minutes.

Since 1973, Duke has been assigned to the Space Shuttle program, including serving as technical assistant to the Manager for Space Shuttle Systems Integration. He has been an astronaut since April 1966, and his departure will reduce the number of NASA astronauts to 29.

Duke is married to the former Dorothy Meade Claiborne of Atlanta, Georgia. They have two sons.

- end -



NASA News

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Milton E. Reim

For Release:

UPON RECEIPT

RELEASE NO: 75-75

M. P. FRANK AWARDED NASA DISTINGUISHED SERVICE MEDAL

M. P. Frank of Denton, Texas, was awarded the NASA Distinguished Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Frank states: "In recognition of his distinguished performance as lead Flight Director for the Apollo-Soyuz Test Project. His direction of the formulation of the joint US/USSR operational plans and of the critical flight operations activities including launch, rendezvous, and major joint phases of the mission were essential to the success of this first international manned space flight."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Frank, chief of the Flight Control Division, Flight Operations Directorate at the Johnson Space Center, is the son of Mrs. M. P. Frank of 920 Locust in Denton.

He is a 1954 graduate of the University of Texas with a BS degree in aeronautical engineering.



September 18, 1975

M. P. Frank (right) receives the NASA Distinguished Service Medal from
Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards
Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

National Aeronautics and
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Milton E. Reim

For Release:

UPON RECEIPT

RELEASE NO: 75-76

DOUGLAS K. WARD AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Douglas K. Ward of Fort Morgan and Longmont, Colorado, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Ward states: "In recognition of his outstanding achievements in directing the public information audio-visual activities for the Apollo-Soyuz Test Project and for his exceptional skill in providing commentary from the Mission Control Center during the ASTP mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Ward, manager, Broadcasting and Photo Services, Public Information Office at JSC, is the son of Mr. and Mrs. Blaine C. Ward, 1515 Lamplighter Drive, Longmont. He is a 1964 graduate of the University of Colorado with a BA degree.

- end -

September 18, 1975



Douglas K. Ward (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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Milton E. Reim

For Release:

UPON RECEIPT

RELEASE NO: 75-77

DR. ARNAULD E. NICOGOSSIAN AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Dr. Arnauld E. Nicogossian of New York City, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Nicogossian states: "In recognition of his outstanding leadership and professional competence while serving as flight surgeon for the Apollo-Soyuz Test Project. His exceptional responsiveness to the medical needs of the flight crew contributed significantly to the success of the mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Nicogossian, medical research officer in Life Sciences Directorate at JSC, is the son-in-law of Mr. and Mrs. M. Gallagher, 33-36 60th Street, Woodside, N. Y.

He is a 1964 graduate of Teheran University, Teheran, Iran, with a degree in medicine

- end -

September 18, 1975



Arnauld E. T. Nicogossian (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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Milton E. Reim

For Release:
UPON RECEIPT

RELEASE NO: 75-78

ARNOLD R. ALDRICH AWARDED NASA OUTSTANDING LEADERSHIP MEDAL

Arnold D. Aldrich of Lexington, Massachusetts, was awarded the NASA Outstanding Leadership Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Aldrich states: "In recognition of his outstanding achievements while managing the development of spacecraft systems, establishing ground support requirements, and directing mission planning for the Apollo-Soyuz Test Project. His leadership of key negotiations with the Soviet Union concerning spacecraft changes and revisions to test plans, particularly those leading to the agreement to change critical hardware for the docking systems, assured the success of this first international manned space flight."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Aldrich, manager, Program Assessment Office, Space Shuttle Program Office, is the son of Mark C. Aldrich, 208 Old Marlboro Road, Concord, Massachusetts.

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RELEASE NO: 75-78

He is a 1959 graduate of Northeastern University, Boston, Mass., with a BS degree in electrical engineering.

- end -

September 18, 1975

Arnold D. Aldrich (right) receives the NASA Outstanding Leadership Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

National Aeronautics and
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Milton E. Reim

For Release:
UPON RECEIPT

RELEASE NO: 75-79

FRANK C. LITTLETON JR. AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Frank C. Littleton Jr., of Paris, Tennessee, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Littleton states: "In recognition of his contribution to the Apollo-Soyuz Test Project through his outstanding leadership and technical skill in the management of operational planning for the ASTP mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Littleton, deputy chief, Mission Operations Branch, Flight Control Division, Flight Operations Directorate, is the son of Mrs. F. C. Littleton of Puryear, Tenn.

He is a 1959 graduate of Georgia Tech with a BS degree in aeronautical engineering.

- end -

September 18, 1975



Frank C. Littleton Jr. (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Milton E. Reim

For Release:
UPON RECEIPT

RELEASE NO: 75-80

BENNETT W. JAMES AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Bennett W. James of San Jose, California, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to James states: "In recognition of his outstanding contributions to the Apollo-Soyuz Test Project through his assistance with the development of arrangements secured by negotiations with the Soviets regarding media coverage and with the development of the Apollo onboard television system and support scenario."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

James, chief of the Plans and Operations Office, Public Affairs Office at JSC, is the son of Mrs. Sybil James, 3314 Lynn Oaks Drive, San Jose.

He attended Santa Clara University in 1946-47.

- end -

September 18, 1975



Bennett W. James (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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Milton E. Reim

For Release:
UPON RECEIPT

RELEASE NO: 75-81

JAMES E. MAGER AWARDED NASA EXCEPTIONAL SERVICE MEDAL

James E. Mager of Van Wert, Ohio was awarded the NASA Exceptional Service Medal at an Apollo Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas on September 16, 1975.

The citation for the award to Mager states: "In recognition of his outstanding technical leadership in the preparation of the Mission Control Center to support the Apollo Soyuz Test Project and in the development of the operational procedures for the international voice and television circuits that contributed significantly to the success of the ASTP mission."

The joint U.S./U.S.S.R. earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

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RELEASE NO: 75-81

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Mager, Chief, Operations Integration, Data Systems and Analysis Directorate at JSC, is the son of Robert E. Mager, 402 S. Chestnut, Van Wert and was the "adopted" son of Mr. and Mrs. D. S. White, 6765 Washington, Van Wert during his senior year in highschool and while in college.

He is a 1959 graduate of Case Institute of Technology, Cleveland, Ohio, with a BS degree in electrical engineering.

- end -

James E. Mager (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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For Release:
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RELEASE NO: 75-82

R. THOMAS GIULI AWARDED NASA EXCEPTIONAL SCIENTIFIC ACHIEVEMENT MEDAL

R. Thomas Giuli of Honolulu, Hawaii was awarded the NASA Exceptional Scientific Achievement Medal at an Apollo Soyuz Honor Awards Ceremony held at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Giuli states: "In recognition of his outstanding accomplishments as Project Scientist for the Apollo Soyuz Test Project. His scientific expertise and exceptional leadership contributed significantly to the achievement of the scientific goals of the world's first international manned space flight."

The joint U.S./U.S.S.R. earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

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Giuli, astronomer and program scientist in the Planetary and Earth Sciences Division of Science and Applications Directorate, is the son of Thomas and Doris Giuli of PH-1 2415 Ala Wai Blvd., Honolulu.

He is a 1968 graduate of the University of Stockholm, Stockholm, Sweden, where he received his PhD in astronomy.

- end -

R. Thomas Giuli (right) receives the NASA Exceptional Scientific Achievement Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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For Release:
UPON RECEIPT

RELEASE NO: 75-83

HERBERT E. SMITH JR. AWARDED NASA EXCEPTIONAL SERVICE AWARD

Herbert E. Smith Jr. of Wichita Falls, Texas, was awarded the NASA Exceptional Service Award at an Apollo Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Smith states: "In recognition of his outstanding contributions to the Apollo Soyuz Test Project through his leadership and technical skill in the planning and direction of the guidance and control analysis and test activities."

The joint U.S./U.S.S.R. earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Smith is Deputy Chief, Engineering Simulation Branch of the Avionics System Engineering Division, Engineering and Development Directorate at JSC.

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He is a 1958 graduate of Southern Methodist University with a BS degree in industrial engineering and the University of Oklahoma in 1960 with an MS degree in aerospace engineering.

- end -

Herbert E. Smith Jr. (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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For Release:

RELEASE NO: 75-84

UPON RECEIPT

JOHN E. RILEY AWARDED NASA EXCEPTIONAL SERVICE MEDAL

John E. (Jack) Riley of Trenton, Missouri, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Riley states: "In recognition of his outstanding contributions to the Apollo-Soyuz Test Project through his achievements in providing exceptional news coverage from the Moscow News Center during the ASTP mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Riley, manager of news operations, Public Information Office at JSC, is the son of Mrs. George Dryer, 1524 East 17th, Trenton.

He is a 1950 graduate of the University of Kansas with a BS degree in journalism.

- end -

September 19, 1975



NASA News

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Lyndon B. Johnson Space Center
Houston, Texas 77058
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Milton E. Reim

For Release:
UPON RECEIPT

RELEASE NO: 75-84

JOHN E. RILEY AWARDED NASA EXCEPTIONAL SERVICE MEDAL

John E. (Jack) Riley of Trenton, Missouri, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Riley states: "In recognition of his outstanding contributions to the Apollo-Soyuz Test Project through his achievements in providing exceptional news coverage from the Moscow News Center during the ASTP mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific medical and engineering experiments during the two days their spacecraft were docked.

Riley, manager of news operations, Public Information Office at JSC, is the son-in-law of C. E. Pray, 2020 Oakland Avenue, Kansas City, Kansas.

He is a 1950 graduate of the University of Kansas with a BS degree in journalism.

- end -

September 19, 1975



John E. Riley (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

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Milton E. Reim

For Release
UPON RECEIPT

RELEASE NO: 75-85

WALTER W. GUY AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Walter W. Guy of Columbia, S.C., was awarded the NASA Exceptional Service Medal at an Apollo Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Guy states: "In recognition of his outstanding contributions to the Apollo Soyuz Test Project through his leadership and technical skill in the development and testing of the life-support and crew-transfer systems for the ASTP mission."

The joint U.S./U.S.S.R. earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

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RELEASE NO: 75-85

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Guy, Assistant Chief for Test and Development, Crew Systems Division of Engineering and Development Directorate at JSC is the son of Mr. and Mrs. Walter F. Guy of 3932 Prentice, Columbia, S.C.

He is a 1959 graduate of the University of South Carolina, Columbia, with a BS degree in mechanical engineering and a 1968 graduate of Rice University with an MS degree in mechanical engineering.

- end -

Walter W. Guy (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

National Aeronautics and
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Milton E. Reim

For Release:

RELEASE NO: 75-86

UPON RECEIPT

REINHOLD H. DIETZ AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Reinhold H. Dietz of Mobile, Alabama, was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Dietz states: "In recognition of his outstanding contributions to the Apollo-Soyuz Test Project through his leadership in defining the communications and tracking interfaces and for his technical skill in designing and developing the ASTP communications and tracking systems."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

- more -



Dietz, head of the Skylab/ASTP Communications Office, Engineering and Development Directorate at the Johnson Space Center, is the nephew of Mrs. Bernice Drinkard, 1702 W. Cardinal Drive and Mrs. Ruth Pugh, 4106 Palmdale Five, both of Mibile,

Hi is a 1955 graduate of the University of Alabama with a BS degree in electrical engineering.

- end -

September 19, 1975

Reinhold H. Dietz Jr. (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

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For Release:
UPON RECEIPT

RELEASE NO: 75-87

ROBERT DEAN WHITE AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Robert Dean White of Waco, Texas, was awarded the NASA exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to White states: "In recognition of his outstanding leadership and technical skill in the design, development, and testing of the Apollo docking system that contributed significantly to the success of the Apollo-Soyuz Test Project."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

White, chairman of the Working Group for International Docking in the Spacecraft Design Division of Engineering and Development Directorate at JSC, is the son of Mrs. O. F. Wooten, Laguna Park, Texas.

He is a 1962 graduate of the University of Texas with a BS degree in mechanical engineering.

- end -

September 19, 1975



Robert D. White (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

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Milton E. Reim

For Release:

RELEASE NO: 75-88

UPON RECEIPT

J. C. WAITE AWARDED NASA EXCEPTIONAL SERVICE MEDAL

J. C. Waite of Waverly, Iowa, was awarded the Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas on September 16, 1975.

The citation for the award to Waite states: "In recognition of his exceptional contributions to the furtherance of international goodwill through his dedicated efforts in providing protocol support for the visiting delegates from the Soviet Union during the Apollo Soyuz Test Project."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Waite, chief, Special Events Office, Public Affairs Office, at the Johnson Space Center is the nephew of Mr. and Mrs. Walter Spurbeck Sr. of Waverly.

He attended Wartburg College 1938-39, pursuing pre-engineering studies.

September 19, 1975



J. C. Waite (right) receives the NASA Exceptional Service Medal from Dr. James C. Fletcher, NASA Administrator, at an Apollo-Soyuz Honor Awards Ceremony at the Johnson Space Center, September 16, 1975.

NASA News

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For Release:

RELEASE NO: 75-89

UPON RECEIPT

LEONARD S. NICHOLSON AWARDED NASA EXCEPTIONAL SERVICE MEDAL

Leonard S. Nicholson was awarded the NASA Exceptional Service Medal at an Apollo-Soyuz Honor Awards Ceremony at the Lyndon B. Johnson Space Center, Houston, Texas, on September 16, 1975.

The citation for the award to Nicholson states: "In recognition of his outstanding contributions to the Apollo Soyuz Test Project through his leadership in the planning and preparation for this joint U./USSR manned space flight mission."

The joint US/USSR earth-orbital mission was flown July 15-24, 1975. The first international manned space flight successfully tested compatible rendezvous and docking systems designed to provide space rescue capability and to permit cooperative scientific missions in the future. The American and Soviet crews conducted joint scientific, medical and engineering experiments during the two days their spacecraft were docked.

Nicholson is a technical assistant to the manager of the Apollo Spacecraft Program Office at the Johnson Space Center.

- end -



News

National Aeronautics and
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Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Robert V. Gordon

RELEASE NO: 75-90

For Release:
October 1, 1975
2:00 p.m. CDT

SHUTTLE CONTRACT AMENDMENT - RI

The National Aeronautics and Space Administration and Rockwell International have signed a supplemental agreement which incorporates the follow-on development phase of the Space Shuttle Orbiter project into an existing contract.

The Space Shuttle, to be operational in 1980, will be the major part of a reusable, low-cost space transportation system that will replace most of the current U.S. launch vehicles.

The supplemental agreement formally incorporates the construction of Orbiters number 101 and 102, the Approach and Landing Tests and six Orbital flight tests into an already existing contract for design, development, testing and evaluation of the Space Shuttle Orbiter.

This supplemental agreement was contemplated when the original Space Shuttle Orbiter contract with Rockwell was signed. The additional effort covered under the agreement represents work valued at slightly over \$1.8 billion and brings the estimated value of the Orbiter contract with Rockwell to slightly over \$2.7 billion. Rockwell was awarded the contract for Orbiter design, development, and integration with all other elements of the Space Shuttle system in July 1972.

- end -



News

National Aeronautics and
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Lyndon B. Johnson Space Center

Houston, Texas 77058
AC 713 483-5111

Jack Riley

For Release:

RELEASE NO: 75-91

September 24, 1975

LUNNEY TO HEAD SHUTTLE PAYLOAD OFFICE

The Johnson Space Center today announced the establishment of a program office to plan and develop JSC payloads for the Space Shuttle.

Glynn S. Lunney will manage the Shuttle Payload Integration and Development Program Office and will report to Dr. Christopher C. Kraft, Jr., JSC Director. Lunney has been Apollo Spacecraft Program Manager and was U.S. Technical Director for the Apollo-Soyuz Test Project.

The Apollo Spacecraft Program Office has been abolished, and personnel from that office and the Payloads Coordination Office have been reassigned to the new program office.

The new office will manage JSC's integration and operations activities for all Shuttle payloads, including those developed by other organizations such as Spacelab, Interim Upper Stage, Low Cost Modular Spacecraft, Long Duration Exposure Facility and Large Space Telescope.

In addition, the Shuttle Payload Integration and Development Program Office is responsible for JSC participation in international space activities, including any future joint U.S.-U.S.S.R. activities.

- end -



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Lyndon B. Johnson Space Center

Houston, Texas 77058
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Robert Gordon

For Release:

RELEASE NO: 75-92

October 3, 1975

CONTRACT TO GENERAL ELECTRIC SPACE DIVISION

The NASA has awarded an \$11.5 million contract to the General Electric Space Division of Houston, Texas, to provide acceptance check-out equipment (ACE) for the Space Shuttle Orbiter.

The ACE system will be used to conduct standard tests and procedures and to detect variances in spacecraft systems while they are in assembly at the orbiter plant in Palmdale, California. Rockwell International Corp. is responsible for the fabrication and integration of the Shuttle Orbiter at Palmdale.

Under the terms of the contract, GE will also provide checkout support during the approach and landing phases of the Shuttle missions. The contract will employ approximately 30 GE personnel at Palmdale and additional 80 GE personnel at the NASA Johnson Space Center, Houston, Texas.

- end -



News

National Aeronautics and
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Houston, Texas 77058
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Robert Gordon

For Release:

RELEASE NO: 75-93

October 3, 1975

CONTRACT AMENDMENT TO LOCKHEED ELECTRONICS COMPANY, INC.

The National Aeronautics and Space Administration has signed a \$44,800,000 contract amendment with the Lockheed Electronics Company, Inc. of Houston, for electronic, scientific and computing center support services at the NASA Johnson Space Center.

The new amendment calls for Lockheed to provide support for five technical and scientific directorates at JSC. Specific programs included in this support are Space Shuttle, Earth Resources, Aircraft, health applications and Large Crop Inventory Experiment, a program designed to determine the feasibility of assessing crop inventories from a satellite.

This amendment brings the estimated value of the Lockheed contract to \$173,100,000.

- end -



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Robert Gordon

RELEASE NO: 75-94

For Release:

November 6, 1975

AERONUTRONIC FORD CORPORATION CONTRACT AMENDMENT

The National Aeronautics and Space Administration has signed a \$2,548,265 contract amendment with Aeronutronic Ford Corporation of Houston, for operation of the mission control center at the NASA Johnson Space Center.

The contract amendment, supplemental agreement 195, to the contract originally awarded in 1963, calls for Aeronutronic to provide additional direct labor hours and materials for the performance of ground based data systems, design, implementation, operation and maintenance of the control center. This additional work brings the estimated value of the original contract to \$267,710,123.

Aeronutronic Ford will perform the majority of the work at their Houston, Texas, location with support from their facilities at Palo Alto and Newport Beach, California, and Philadelphia, Pennsylvania.

The contract will employ 513 people at the three Aeronutronic Ford facilities.

- end -



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For Release:

Jack Riley

November 7, 1975

RELEASE NO: 75-95

SOVIET DELEGATION AT JSC

Preparation of a joint American-Soviet report on last July's Apollo-Soyuz manned space mission will begin Monday, November 10, at the Johnson Space Center.

Professor Konstantin D. Bushuyev, USSR technical director for the mission, will head a 25-member delegation from the Soviet Union which will work at JSC until November 21. The USSR flight director for the mission, Cosmonaut Aleksey S. Yeliseyev, will be a member of the delegation.

The NASA group working with the Soviet specialists will be directed by Dr. Glynn S. Lunney, US technical director for the international mission.

- end -



News

National Aeronautics and
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Terry White

For Release:

December 4, 1975

RELEASE NO: 75-96

JOHNSTON LEAVES JSC, JOINS BUNKER RAMO

Richard S. Johnston, director of Life Sciences at NASA Johnson Space Center, will leave NASA to join the Bunker Ramo Corporation, Oak Brook, Illinois, as special assistant to the president effective January 1, 1976.

"My decision to leave NASA was probably the most difficult decision I've had to make in my life," said Johnston who spent 16 of his 29 years government service with NASA.

"My years with NASA were certainly my most rewarding of my life and I leave with many regrets, accompanied by high expectations for this new phase of my career. I had this opportunity to go into the business world, and I am at the age where if I am going to make such a move, I'd better do it. I look back with special pride toward my part in developing the bright, young people who will be the future leaders of the space program."

Bunker Ramo Corporation is an international manufacturer of electronic components, information systems and knitted deep-pile fabrics. Former Johnson Space Center deputy director George S. Trimble is Bunker Ramo president.

Johnston, 49, began his 29-year federal service career in 1946 when he joined the US Naval Research Laboratory, in Washington, D.C. where he was a research

- more -



- 2 -

chemist involved in developing chemical oxygen sources for breathing systems. He also worked in evaluation of submarine air purification systems while at the Laboratory.

In 1955 Johnston joined the US Navy Bureau of Aeronautics (BuAer) where he worked on development of liquid oxygen breathing systems for aircraft and low-altitude aircraft escape systems.

Transferring in 1959 to the NASA Space Task Group at Langley Field, Virginia, Johnston began NASA service as an environmental control system project engineer on Project Mercury, later becoming chief of the Manned Spacecraft Center (now Johnson Space Center) Crew Systems Division. He was responsible for the Division's work in spacecraft environmental control systems, spacesuits, waste managements systems, space food systems and other aspects of spaceflight life support.

In 1968, Johnson was named special assistant to the JSC director and was responsible for technical operations at the Center, including managing the Apollo Lunar Quarantine Program and preparation and operation of the Lunar Receiving Laboratory. Additionally, he was appointed manager of the Apollo Lunar Experiments Program responsible for development of lunar orbit and lunar surface experiments flown in the Apollo Program.

Johnston was appointed deputy director of JSC Medical Research and Operations in 1970, and became Director of Life Sciences in 1972--the post he held until retiring to join the Bunker Ramo Corporation.

As JSC Director of Life Sciences, Johnson managed the overall flight crew medical program, development of life sciences experiments to be flown on Apollo, Skylab and Apollo-Soyuz Test Project, and the future international Spacelab to be flown as a Space Shuttle payload early in the 1980s. Johnston also was responsible for overseeing applications of space medical technology to earth-bound uses.

- more -

Among Johnston's honors and awards during his 29 years of government service are the American Astronautical Society's Victor A. Prather Award for outstanding development of extravehicular protection in space; the NASA Distinguished Service Medal, NASA Exceptional Service Medal, NASA Superior Achievement Award, the Presidential Medal of Freedom, and the American Institute of Aeronautics and Astronautics John Jeffries Award for outstanding contributions to the advancement of aerospace medical research through development of life support systems for manned space flight.

Johnston is a member of the American Institute of Astronautics and Aeronautics, the Aerospace Medical Association and in 1973 was elected a Fellow of the American Astronautical Society.

Johnston is a native of Keyser, West Virginia, and received a BS degree in chemistry from the University of Maryland. He is married to the former Jean Armbruster. They have two children: Susan J. and Richard A.

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Milton E. Reim

For Release:

UPON RECEIPT

RELEASE NO: 75-97

JOSEPH D. ATKINSON, JR. RECEIVES NASA EXCEPTIONAL SERVICE MEDAL

Joseph D. Atkinson Jr., NASA Johnson Space Center, was awarded the NASA Exceptional Service Medal at recent awards ceremonies in Washington, D. C.

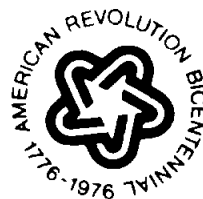
The citation stated, "In recognition of his outstanding leadership in directing the Johnson Space Center's Equal Opportunity Program. His accomplishments in resolving discrimination complaints, recruiting minority and female employees, and informing employees of equal opportunity progress have contributed significantly to the achievement of NASA's equal opportunity goals."

Atkinson is chief of the JSC Equal Opportunity Programs Office. He is formerly of San Antonio, Texas and is the son of Mrs. Gladys L. Atkinson, 930 Capital View Avenue, N.W., Atlanta, Georgia 30314.

He is a 1949 graduate of Morehouse College, Atlanta, with a BA degree.

The Honorable Philip W. Buchen, Counsel to the President, commended the awardees and NASA for their achievements in space and aeronautics. NASA Administrator Dr. James C. Fletcher and Deputy Administrator Dr. George M. Low made the individual awards at the annual headquarters ceremony.

- more -



"I have a deep conviction that these men and women represent the best of America, and that their accomplishments we acknowledge today are not only significant elements in our past performance but a major factor in the assurance of our nation's future," Dr. Fletcher said.

The agency honored 161 individuals for outstanding performance of their assignments during the past year.

Additional federal employees were honored in 32 group achievement awards and employees of industrial firms contributing to the space effort were awarded medals and citations for their participation in the space program.

A special feature of this year's ceremony was the recognition of 40 individuals for their contributions to the success of the Apollo Soyuz Test Project.

Leading the awards in 10 different categories were the NASA Distinguished Service Medal, awarded to six agency employees; and the Distinguished Public Service Medal, received by three individuals in organizations outside government.

Seventy-seven NASA employees agency wide received **the** Exceptional Service Medal; nine were awarded the Outstanding Leadership Medal; 13 persons received the Exceptional Scientific Achievement Medal; and seven Equal Employment Opportunity Awards were given this year.

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Terry White

For Release:

December 3, 1975

RELEASE NO: 75-98

FAGET GETS ASME GOLD MEDAL

Dr. Maxime A. Faget, Director of Engineering and Development at the NASA Johnson Space Center, Wednesday will receive the American Society of Mechanical Engineers Gold Medal. Faget will receive the medal at the ASME annual winter meeting honors assembly in the Hyatt Regency Hotel Ballroom.

The Gold Medal was established by ASME in 1920 as an award for "eminently distinguished engineering achievement."

Among previous JSC recipients of the ASME Gold Medal are Dr. Christopher C. Kraft, Jr., Director of the Johnson Space Center, 1973, and Robert R. Gilruth, former Director of the Johnson Space Center, 1970.

Faget has been JSC Director of Engineering and Development since November 1961, and was responsible for design, development and environmental testing of the Mercury, Gemini and Apollo spacecraft, the Skylab space station, and the Space Shuttle ---a reusable space vehicle that will make its first orbital flight late in the 1970's.

He joined the National Advisory Committee for Aeronautics (NASA predecessor) in 1946 as a research scientist.

- end -



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Houston, Texas 77058
AC 713 483-5111

Robert V. Gordon

For Release:
December 11, 1975

RELEASE NO: 75-99

NASA SEEKS PROPOSALS ON SPACE STATION STUDY

The aerospace industry is being asked by the National Aeronautics and Space Administration to study how the Space Shuttle, this nation's next generation of spacecraft may be utilized to transport a space station into orbit.

NASA has issued a request for proposals from industry on a "Space Station Systems Analysis Study." Proposals are due by January 26, 1976.

NASA plans to issue two \$700,000 contracts in April for parallel 18-month conceptual studies, one managed by the Marshall Space Flight Center, Huntsville, Alabama, and the other by the Lyndon B. Johnson Space Center, Houston, Texas.

Contractors will study low and synchronous orbit Space Station facilities of modular construction to begin in the mid-80's. Major emphasis will be placed on assuring inherent growth potential for the Space Station over a period of years. Unless advantages can be achieved by using a shuttle-derived heavy lift vehicle, the delivery, assembly, and support for the Space Station will initially be provided by the NASA reusable space transportation system. This requires that elements of the station be compatible with the Shuttle Orbiter cargo bay, which is 18.3 meters (60 feet) long and 4.6 meters (15 feet) in diameter.

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The Space Station will be responsive to a wide range of "Operational Base" and "Space Laboratory" activities. Typical "Operational Base" activities include the use of a Space Station as a test facility and construction base to support the manufacturing, fabrication, and assembly of various sized space structures. One example of the use of large structures would be the generation of electrical power through large solar collectors or reflectors and its transmission to Earth by microwave antennas. Other applications of the Space Station as an "Operational Base" include the retrieval and repair of automated spacecraft and the provision of orbital propellant depot storage and transfer functions needed to refuel orbital transfer systems (Space Tugs) carrying payloads from low to high Earth orbit or an escape orbit.

Functioning as a "Space Laboratory," the Space Station would accommodate materials processing and commercial manufacturing, basic and applied physical sciences experiments, space physics and astronomy missions; life sciences research; and provide for the continued development of sensor technology in such areas as Earth surveys, navigation, weather and climate research.

Weight limitations for modules is 29,484 kilograms (65,000 pounds) for launch and 14,515 kilograms (32,000 pounds) for landing.

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News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Milton E. Reim

For Release:

December 16, 1975
2 p.m. CDT

RELEASE NO: 75-100

SLAYTON TO HEAD SHUTTLE APPROACH AND LANDING PROJECT AT JSC

Dr. Christopher C. Kraft, Jr., Director Johnson Space Center, today announced the establishment of the position of Deputy Director of Flight Operations for Approach and Landing Test.

Donald K. Slayton has been appointed to fill the position and will report to the Director, Flight Operations, Kenneth S. Kleinknecht.

Slayton will be responsible for planning and implementing the Approach and Landing Test Project for the Space Shuttle Program.

His most recent assignment was as a member of the U.S. crew for the Apollo Soyuz Test Project in which he served as the Docking Module Pilot.

Slayton was named as one of the original seven Mercury astronauts in April 1959. He became coordinator of astronaut activities in September 1962 and was named Director of Flight Crew Operations in November 1963. He relinquished the latter position in February 1974 to assume the duties of ASTP crewman.

He has a bachelor of science degree in aeronautical engineering from the University of Minnesota, an honorary doctor of science degree from Carthage College in Illinois, and an honorary doctor of engineering degree from Michigan Technological University.

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NASA News

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Lyndon B. Johnson Space Center
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Milton Reim

For Release:

RELEASE NO: 75-101

UPON RECEIPT

DONALD D. BLUME RECEIVES NASA EXCEPTIONAL SERVICE MEDAL

Donald D. Blume, NASA Johnson Space Center, was awarded the NASA Exceptional Service Medal at recent awards ceremonies in Washington, D.C.

The citation stated, "In recognition of his outstanding managerial leadership of support services at the Johnson Space Center and for his accomplishments in using technological advances and efficient management of personal resources to achieve increased organizational productivity."

Blume is chief of the Management Service Division of Center Operations. He is a 1951 graduate of the University of Missouri, Columbia with a BS degree.

The Honorable Philip W. Buchen, Counsel to the President, commended the awardees and NASA for their achievements in space and aeronautics. NASA Administrator Dr. James C. Fletcher and Deputy Administrator Dr. George M. Low made the individual awards at the annual headquarters ceremony.

"I have a deep conviction that these men and women represent the best of America, and that their accomplishments we acknowledge today are not only significant elements in our past performance but a major factor in the assurance of our nation's future," Dr. Fletcher said.

The agency honored 161 individuals for outstanding performance of their assignments during the past year.

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Additional federal employees were honored in 32 group achievement awards and employees of industrial firms contributing to the space effort were awarded medals and citations for their participation in the space program.

A special feature of this year's ceremony was the recognition of 40 individuals for their contributions to the success of the Apollo Soyuz Test Project.

Leading the awards in 10 different categories were the NASA Distinguished Service Medal, awarded to six agency employees; and the Distinguished Public Service Medal, received by three individuals in organizations outside government.

Seventy-seven NASA employees agency wide received the Exceptional Service Medal; nine were awarded the Outstanding Leadership Medal; 13 persons received the Exceptional Scientific Achievement Medal; and seven Equal Employment Opportunity Awards were given this year.

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December 17, 1975

NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
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Milton Reim

For Release:

RELEASE NO: 75-102

UPON RECEIPT

R. WAYNE YOUNG RECEIVES NASA EXCEPTIONAL SERVICE MEDAL

R. Wayne Young, NASA Johnson Space Center, was awarded the NASA Exceptional Service Medal at recent awards ceremonies in Washington, D. C.

The citation stated, "In recognition of his outstanding managerial leadership in planning and directing the program resources and scheduled integration, contract management, and related support activities for the Space Shuttle Program. Through his efforts, program requirements have been met and costs have remained well within spending ceilings."

Young is manager of the Shuttle Resources and Integration Office of the Administration and Program Support Directorate at JSC.

He is formerly of Dallas, Texas, and his parents Mr. and Mrs. Robert L. Young reside at 6035 Anita, Dallas, Texas.

Young attended Baylor University, graduated from Texas A&M in 1956, with a BS degree in electrical engineering, from Ohio State in 1957 with a MS degree and in 1968 he received a degree in Business Management from Stanford University, attending on a Sloan Fellowship.

His wife Pat, daughter of Dr. and Mrs. M. A. Mitchell, 1059 East Portland, Springfield, Missouri, also attended the awards ceremonies in Washington.

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December 17, 1975

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Terry White

For Release:

December 17, 1975

RELEASE NO: 75-103

MINI-ORBITER FLIES AT JSC

A space engineer's leisure-time hobby may provide some indication of Space Shuttle Orbiter flight characteristics before the Orbiter is air-dropped to land in the California desert sometime in 1977.

John Kiker of the NASA Johnson Space Center Spacecraft Design Division modified a 1/40th scale Orbiter model that had been used in earlier floatation tests. Formed from plastic foam sprayed into a reverse mold, the model is ballasted to simulate the approximate scale mass and center of gravity of the actual Orbiter.

Kiker launches the Orbiter model from atop a gas-powered radio control model airplane. A radio signal separates the Orbiter from the carrier aircraft at the desired altitude, and a second radio transmitter allows the Orbiter to be flown to its dead-stick approach and landing.

The full-size manned Orbiter will be dropped from atop a modified Boeing 747 jet transport sometime in 1977 at NASA Flight Research Center, Edwards, California, to glide down to landings as a prelude to first orbital flight in 1979. Orbiter will make its final approach at a glideslope of 21 to 24 degrees, followed by flareout and touch-down at 185 knots.

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The bright-red Orbiter model has a radio control receiver that drives servos to move elevons for pitch control and differentially for roll control. A conventional rudder, with split speed brakes, are on the full-size Orbiter now in final assembly at Rockwell International's plant at Palmdale, California. Rollout of the first Orbiter is now scheduled for September 1976, with approach-and-landing tests (ALT) the following year.

Orbiter flight crews will train for the ALT flights in Grumman Gulfstream II jet aircraft which have been modified with drag devices to simulate Orbiter's high sink rate and landing speed.

Kiker made his first model test flight to check out the pylon release system, gradually working up to his "mini-ALT" flights. He uses his personal radio control equipment, and made Orbiter model modifications in his home shop.

"I believe radio control scale models are a good means of providing an initial indication of Orbiter control characteristics and separation dynamics before you start flying the real thing with live pilots," said Kiker.

Kiker has been building and flying model aircraft since he stopped piloting full-size airplanes in 1963, and is internationally known for his radio control model activity.

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