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[illegible]		
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85-045	Rockwell Picked to Build Space Station Thermal Test Bed	11/18/85
85-046	STS 61-C Preflight Briefings	11/18/85
85-47	NASA Announces Astronauts to Perform EVA PLSS Hatch	11/22/85
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NASA News

National Aeronautics and
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Brian Welch
RELEASE NO. 85-001

For Release
January 7, 1984

WARD NAMED CHIEF OF MEDIA SERVICES BRANCH

Douglas K. Ward has been named Chief of the Public Information Branch, Office of Public Affairs, at the Johnson Space Center in Houston, effective immediately. In making the announcement, Harold S. Stall, Director of Public Affairs, also announced that the name of the branch will be changed.

Ward has been reassigned from his current position as Deputy Director of Public Affairs, a position he has held since 1981. The branch itself has been renamed the Media Services Branch, reflecting the activities of the organization as the primary interface with the news media at JSC. The branch chief vacancy was occasioned by the retirement of John McLeaish Jan. 3.

Ward, a native of Idaho Falls, Idaho, is a 1964 graduate of the University of Colorado and holds a bachelor of arts degree in political science. From 1964 to 1966, he worked as a news writer and editor for the U.S. Information Agency, Voice of America, in Washington, D.C. He came to NASA's Johnson Space Center in 1966 as a public information specialist, and served as a mission

-more-

commentator until 1972, when he was named Audio Visual Manager for the Office of Public Affairs. In 1979, he went to NASA Headquarters in Washington and served for two years as Assistant Executive Officer in the Office of the Administrator. In 1981, he returned to JSC and the position of Deputy Director of Public Affairs.

He was the recipient of the JSC Superior Achivement Award in 1973 and the NASA Exceptional Service Medal in 1975.

Ward and his wife, the former Susan D. Sellery of Madison, Wisconsin, have three children, Edward, Elisabeth and Christina, and reside in Seabrook, TX.

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Steve Nesbitt
Johnson Space Center (713) 483-5111

For Release:
IMMEDIATE

RELEASE NO. 85-002

NOTE TO EDITORS: SEN. JAKE GARN PHOTO OPPORTUNITIES PLANNED

U.S. Senator Jake Garn of Utah will be at the NASA Johnson Space Center in Houston Jan. 11-17 undergoing initial training and preparations for his planned Space Shuttle flight.

Garn is tentatively scheduled to participate in high-altitude chamber training Friday, Jan. 11th, and will return to Washington over the weekend. He will be back at JSC Monday through Thursday, Jan. 14-17 for medical exams, meetings and a flight on the KC-135 "zero-gravity" aircraft. He will leave Houston the afternoon of the 17th.

Photo sessions will be on a pool basis. Media wishing to participate should contact the JSC newsroom by close-of-business Wednesday, Jan. 9.

Tentative plans for pool photos include early Friday at the altitude chamber, a treadmill test on Tuesday and the KC-135 flight Thursday morning. No press conferences or formal Q&A are planned at this time.

# # #

January 8, 1985

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston Texas 77058
AC 713 483-5111

For Release

Terry White

January 16, 1985

RELEASE NO: 85-003

SPACE CENTER PICKS ROLM CORPORATION
FOR TELEPHONE SYSTEM NEGOTIATIONS

The NASA Johnson Space Center, Houston, Texas has selected ROLM Corporation, Gulf Coast Region, Houston, for negotiations leading to a contract for a telecommunications system at the Center.

The negotiated contract will cover a digital integrated voice/data distribution system, software, supporting equipment and consoles instrumentation, power systems, and other equipment; telephone instruments or data interfaces for all Center employees and facilities; installation of the system including engineering, facilities modification, systems testing, and follow-on maintenance and operations support services.

A firm-fixed-price contract is expected to be negotiated at about $14 million for the basic telecommunications system, with ten one-year extensions for maintenance, operations and future expansion costs.

Other proposers were: American Telephone & Telegraph Information Systems, Arlington, Virginia; Bell Atlanticom Systems, Inc., Silver Springs, Maryland; Central Business Systems, Houston; General Telephone Company of the Southwest, San Angelo, Texas; Northern Telecom, Inc., Vienna, Virginia; and Southwestern Bell Telecom, St. Louis, Missouri.

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Dave Alter
Release No. 85-004

For Release
January 29, 1985

SHUTTLE MISSION 51-E -- QUICK LOOK FACTS

CREW:	Karol J. Bobko, Commander Donald E. Williams, Pilot M. Rhea Seddon, Mission Specialist S. David Griggs, Mission Specialist Jeffrey A. Hoffman, Mission Specialist Patrick Baudry, French Payload Specialist E. J. "Jake" Garn, Payload Specialist
Orbiter:	Challenger (OV-099)
Launch Site:	Pad 39-A, Kennedy Space Center, Fla.
Launch Date/Time:	February 20, 1985; 8:18 a.m. EST
Window:	18 minutes to 8:36 a.m. EST
Orbital Inclination:	28.45 degrees
Altitude:	177 by 177 for TDRS-B deploy; 180.5 by 203.5 for TELESAT-1 deploy
Mission Duration:	4 days, land on flight day 5; (64 full orbits; land on orbit 65)
Landing Date/Time:	February 24; 9:21 a.m. EST
Primary Landing Site:	Kennedy Space Center, Fla., Runway 33; weather alternate, Edwards Air Force Base, Calif., Runway 17
Cargo and Payloads:	Tracking and Data Relay Satellite (TDRS-B/IUS) Anik-C (TELESAT-1)/(PAM-D) French Echocardiograph Experiment (FEE) French Posture Experiment (FPE) Other Scientific Experiments (toys in space)
Highlights:	Deploy the second of three TDRS satellites Deploy the second TELESAT satellite, the first of three Anik-C payloads First public official to fly onboard a Space Shuttle

51-E TRAJECTORY SEQUENCE OF EVENTS

EVENT	MANEUVER	TIG MET (D:H:M)	BURN DURATION (Sec)	DELTA V (Ft Per Sec)	POST BURN Apogee/Perigee (S.Mi.)
Lift-Off		0:00:00			
MECO		0:08:40			95./
OMS-1	OMS-1	0:10:34	148.7	226.1	176.5/57.5
OMS-2	OMS-2	0:44:02	123.3	184.5	176.9/175.6
TDRS Deployment (Orbit 7)		10:01:42			176.8/175.9
Separation Maneuver	RCS-1	10:02:42	8.5	2.2	176.7/175.9
·ation Maneuver	OMS-3	10:20:42	22.4	40.0	203.9/175.3
Altitude Adjust	OMS-4	1:02:12:35	5.7	10.1	203.3/181.5
Telesat Deployment (Orbit 22)		1:08:04:12			203.3/180.5
Separation Maneuver	OMS-5	1:08:19:12	5.9	11.0	203.7/188.4
Altitude Adjust	RCS-2	3:04:09:03	37.1	10.0	204.3/188.5
Deorbit Burn (Orbit 64)	OMS-5	4:00:04:57	153.8	290.0	204.3/182.1
Entry Interface (Lat/Long= 23.5/203.5)		4:00:32:26			
K··· anding t 65/D		4:01:03:12			

SUMMARY OF MAJOR ACTIVITIES

Flight Day 1

Ascent
OMS 2
French Echocardiograph Experiment (FEE) Operations
Deploy Tracking and Data Relay Satellite (TDRS)
End Effector Camera View of TDRS
Perigeee Kick Motor

Flight Day 2

OMS Height Adjust Burn
FEE Operations
Deploy Telesat-1 (ANIK-C)
End Effector Camera View of Telesat-1 (ANIK-C) Perigee Kick Motor
French Posture Experiment (FPE)

Flight Day 3

FEE Operations
Image Intensifier Operations (DSO 306)
FPE Operations

Flight Day 4

Crew Press Conference (tentative)
Hot Fire Test Primary Reaction Control System (PRCS)
Checkout Flight Control system (FCS)
FEE Operations
RCS Perigee Adjust Burn
Stow Cabin
FPE Operations

Flight Day 5

Prepare For Deorbit
Deorbit Burn On Rev 64
Entry/Landing On Rev 65 at KSC

STS 51-E PAYLOAD AND VEHICLE WEIGHTS SUMMARY

	Pounds
Tracking And Data Relay Satellite (TDRS-B/IUS)	37,636
Pallet-Attach Structure	5,764
Telesat-1 (ANIK-C) / (PAM-D)	7,347
Pallet-Attach Structure	2,422
French Echocardiograph Experiment (FEE)	200
Total Payload Bay and Middeck Summary	53,396
Orbiter Plus Cargo At Lift-Off	268,163
Total Vehicle At Lift-Off	4,525,332

51-E FLIGHT CREW DATA

KAROL J. BOBKO, 47, Colonel, USAF, commands the 51-E mission. Born in New York City, he became a NASA astronaut in 1969.

Bobko was pilot for STS-6, which launched from Kennedy Space Center, Fla., April 4, 1983. During this maiden voyage of the spacecraft Challenger, the crew deployed a communications satellite (TDRS) Bobko was a crew member on the Skylab Medical Experiments Altitude Test (SMEAT), a 56-day ground simulation of the Skylab Mission, enabling crewmen to collect medical experiments baseline data and evaluate equipment, operations and procedures.

A graduate of the Air Force Academy in 1959, Bobko received a bachelor of science degree. He earned a master of science degree in aerospace engineering from the University of Southern California in 1970. Bobko has logged more than 5,600 hours in fighter, trainer and other aircraft.

DONALD E. WILLIAMS, 42, Commander, USN, is pilot for Shuttle Mission 51-E. A native of Lafayette, Ind., he was graduated from Purdue University in 1964 with a bachelor of science degree in mechanical engineering

Commissioned through the NROTC program at Purdue, he was a fighter pilot, flight instructor, and made four Vietnam deployments aboard the USS Enterprise, completing a total 330 combat missions. He has logged more than 4,000 hours flying time, including 3,800 in jets and 745 carrier landings.

Williams became a NASA astronaut in 1979. He worked as test pilot in the Shuttle Avionics Intergration Laboratory at JSC and also participated in Orbiter test, checkout, launch and landing operations at the Kennedy Space Center. He was Deputy Manager of Operations Integration of the National Space Transportation System Program Office at the Johnson Space Center until his selection as pilot for Mission 51-E.

M. RHEA SEDDON, 37, M.D., a native of Murfreesboro, Tenn., is one of three Mission Specialists aboard Space Shuttle 51-E. She was selected as an astronaut candidate by NASA in 1978 and completed training a year later.

At NASA, Seddon's work has touched on a variety of areas including Orbiter and payload software, avionics, flight data file, the Shuttle medical kit and checklist and as launch and landing rescue helicopter physician.

Seddon received a bachelor of arts degree in physiology from the University of California, Berkeley, and doctorate of Medicine from the University of Tennessee. She is married to Astronaut Robert L. Gibson.

S. DAVID GRIGGS, 45, Captain, Naval Air Reserve, is a mission specialist assigned to the Space Shuttle 51-E mission. He became an astronaut in 1979. A native of Portland, Ore., Griggs received a bachelor of science degree from the U.S. Naval Academy in 1962 and master of science in administration from George Washington University in 1970.

A research pilot at the Johnson Space Center since 1970, he was project pilot for the shuttle trainer aircraft which he helped design, develop and test.

Griggs became Chief of the Shuttle Training Aircraft Operations Office in 1976, a post he held until his selection as an astronaut candidate. Special honors include the Navy Distinguished Flying Cross, 15 Air Medals and three Navy Commendation Medals. He has logged 7,500 hours flying time -- 6,500 in jet aircraft.

JEFFREY A. HOFFMAN, 40, Ph.D., is the third mission specialist assigned to Space Shuttle 51-E. An astronaut candidate since 1979, Hoffman worked in the Flight Simulation Laboratory at Downey, Calif., testing guidance, navigation and flight control systems during preparations for Shuttle orbital flight tests.

A native of New York, Hoffman received a bachelor of arts degree in astronomy from Amherst College and doctor of philosophy in astrophysics from Harvard University.

Hoffman's research interests are in high-energy astrophysics -- cosmic gamma ray and X-ray astronomy. His doctoral work at Harvard was the design, construction, testing and flight of a balloon-borne, low-energy gamma ray telescope. Hoffman is a mission specialist for

another Space Shuttle flight in March of 1986.

PATRICK BAUDRY, 38, Lieutenant Colonel, French Air Force, is one of two payload specialists aboard the Space Shuttle Challenger during the 51-E mission. He is a native of Douala in the United Republic of Cameroon.

Baudry became a French astronaut in 1980. He was a member of the backup crew of the French-Soviet mission and was trained for scientific experiments in physiology, biology, materials processing in space and astronomy.

He joined the "Ecole de l'Air" (French Air Force Academy) in 1967 after an education in special mathematics. He has a masters degree in aeronautical engineering and became a fighter pilot in 1970. He has logged more than 4,000 hours flying time -- 3,300 in jet aircraft.

E. J. "JAKE" GARN, 52, U.S. Senator, is the second payload specialist on 51-E. A native of Richfield, Utah, Garn will take part in medical tests and carry out other tasks designated by NASA. He is the first public official to fly onboard the Space Shuttle.

Garn was graduated from the University of Utah with a bachelor of science degree in business and finance. A former insurance executive, he served as a pilot in the U.S. Navy. He has flown more than 10,000 hours in military and private civilian aircraft.

Prior to election to the U.S. Senate in 1974, he served on the Salt Lake City Commission for four years and was elected mayor in 1971. He was elected to a second term in the Senate in 1980. Garn has been associated with NASA programs for more than ten years. He was a member of the Aeronautics and Space Committee during his first two years in the Senate and for the the past four years has been chairman of the HUD and Independent Agencies Subcommittee, which provides funding for NASA programs.

NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
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For Release
January 29, 1985

Charles Redmond
Headquarters, Washington, D.C.
(Phone: 202/453-8590)

Terry White
Johnson Space Center, Houston, Texas
(Phone: 713/483-5111)

RELEASE NO: 85-005

NASA NAMES CREWS TO DEPLOY SATELLITES IN YEAR-END FLIGHTS

The National Aeronautics and Space Administration today announced Space Shuttle crews for flights in November and December 1985.

Francis R. Scobee has been named commander for flight 51-L planned for launch in November to deploy the third NASA Tracking and Data Relay Satellite (TDRS) from Orbiter Atlantis. The flight also is an opportunity to relaunch one of the communications satellites retrieved from orbit during flight 51-A in November 1984. Michael J. Smith will fly right seat as pilot. Mission specialists are Dr. Judith A. Resnik, Ellison S. Onizuka and Dr. Ronald E. McNair.

Scobee was pilot on flight 41-C in April 1984. Resnik flew aboard flight 41-D in August 1984; Onizuka on 51-C, January 1985; and McNair on 41-B, February 1984.

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Michael L. Coats has been named to command flight 61-C in December with Orbiter Columbia. John E. Blaha is pilot, and mission specialists are Dr. Anna L. Fisher, Dr. Norman E. Thagard and Robert C. Springer. Coats flew on 41-D, and Thagard on STS-7 in June 1983. The mission will be Blaha's first flight.

Payloads on 61-C include Western Union's Westar 7 and RCA's Satcom KU-2 communications satellites, 3M Corporation's Material Sciences Laboratory 3 and the EASE/ACCESS space manufacturing experiment.

NASA also filled positions on two other Space Shuttle crews where mission specialists earlier had been named: Vance D. Brand, commander, and S. David Griggs, pilot for flight 61-D /Spacelab 4 in January 1986; and Jon A. McBride, commander, and Richard N. Richards, pilot, for flight 61-E/Astro 1 in March 1986.

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Terry White
Johnson Space Center, Houston, Texas
(Phone: 713/483-5111)

January 31, 1985

RELEASE NO: 85-006

SPACE CENTER PICKS ALPHA FOR CONSTRUCTION CONTRACT

The NASA Lyndon B. Johnson Space Center, Houston, Texas has selected Alpha Building Corporation, Houston, for negotiations leading to award of a cost-plus-award-fee contract for construction services at the Center.

Services to be provided include minor construction and alteration of laboratory systems, facilities, utilities, roads, sewers, walks, and site work at the Space Center and at Ellington Field seven miles north of the Center.

Alpha Building Corporation's proposed cost and fee for providing these services from March 1, 1985 through February 28, 1986 is approximately $4.4 million.

NASA has the option to extend the contract for four additional one-year periods after the first year.

Other proposers were: Schultz & Lembo, Inc., Houston; Caspan Corporation, Houston; and G&G Contracting Company, Bellaire, Texas.

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NASA News

National Aeronautics and
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Terry White
RELEASE NO. 85-007

For Release
February 8, 1985

NASA CREW TRAINING VETERAN RETIRES

Warren North, veteran specialist in the field of astronaut selection and training at the NASA Johnson Space Center, Houston, retired February 1 after 38 years with the agency.

North, 62, joined NASA's predecessor agency the National Advisory Committee for Aeronautics (NACA) in 1947 as a test pilot-engineer at the Lewis Research Center, Cleveland, Ohio, after earning a bachelor's degree from Purdue University. He later earned master's degrees from Case Institute of Technology and Princeton University.

In 1959 North transferred to NASA Headquarters, Washington, D.C., where he took part in early planning for Project Mercury, including selection and training of the seven original Mercury astronauts. Transferring in 1962 to the Manned Spacecraft Center (now Johnson Space Center), North headed the Center division responsible for training astronauts for Gemini rendezvous and docking development flights and for the Apollo lunar landing program.

At retirement North was special assistant to the JSC director of flight operations in planning Space Shuttle crew training and flight simulation equipment and techniques.

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Dave Alter
RELEASE NO. 85-008

For Release
February 11, 1985

TOYS GIVEN ROLE IN SPACE FOR EDUCATION

Can an astronaut yo-yo in space?

Ten "dime-store" toys including a yo-yo, Wheelo, Slinky and a flipping mouse nicknamed "Rat Stuff" will be aboard Challenger this flight for astronauts to demonstrate the effects of zero-g on mechanical behavior.

As part of a school educational program, Astronauts will operate the simple toys without the constant tug of gravity, where what goes up doesn't necessarily come down.

To students accustomed to seeing a ball bounce and return to earth, or a yo-yo defy its return to the palm, the action will prove enlightening. It will introduce the new language of physics -- and the art of teaching with toys.

The results, recorded and video taped, will become part of a curriculum package for elementary and junior high students through the Houston Museum of Natural Science.

Mission Specialist S. David Griggs will attempt to make the yo-yo "sleep" -- spinning at the end of the string.

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Mission Specialist Jeffrey A. Hoffman opted to demonstrate the Wheelo, magnetic marbles and a spring-wound, friction-wheel car. Wheelo is a magnetic top that travels along a track while spinning (on Earth). Magnetic marbles cling to each other, but will they in the absence of gravity? And the car, which rolls along a flat surface...will it take off?

Commander Karol J. Bobko requested a spinning top and three unrestrained gyroscopes. Will they spin or "walk" along a string without the customary push-back force? young students ask.

Pilot Donald E. Williams, adept at juggling (in 1-g), will try the trick in Challenger's cabin. How does one juggle that which doesn't come down? He also gets to try the spring-wound flipping mouse, and a paddle ball -- a wooden ball attached to the paddle by an elastic string.

To Mission Specialist Rhea Seddon went the jacks (and ball) and Slinky -- an elastic caterpillar-like spring that vibrates and gives off sound waves when stretched. Will it oscillate and travel through the cabin?

Carolyn Sumners, the Museum's director of astronomy and physics, is directing the Toys In Space curriculum program.

Studies have shown that students can learn physics concepts by watching mechanical systems in action, said Sumners. In an earth-based classroom, the gravitational field has a constant value of 1-g. Although the gravity force varies greatly throughout the universe and in non-inertial reference frames, students can only experiment in a constant 1-g environment.

"Through the proposed filming of simple generic motion toys in the zero-g environment of the Space Shuttle, students of all ages will share a vicarious learning experience and will discover how the different toy mechanical systems work without the constant tug of gravity," said Sumners

A Department of Education grant to the University of Houston will make the toy test results available to school districts around the country through the National Diffusion Network.

# # #

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Steve Nesbitt
RELEASE NO. 85-009

February 15, 1985

CREWS FOR FIRST VANDENBERG MISSION, DOD FLIGHT NAMED

The National Aeronautics and Space Administration today announced astronaut crews for two upcoming Department of Defense Space Shuttle missions including the first from Vandenberg Air Force Base, California.

Veteran Space Shuttle commander Robert L. Crippen will head the crew of mission 62-A, scheduled for launch no earlier than January 29, 1986, from Vandenberg. Other crew members named include pilot Guy S. Gardner and mission specialists Dale A. Gardner, Jerry L. Ross and R. Michael Mullane.

Crippen will be making his fifth shuttle flight, the fourth as commander. He flew with astronaut John Young on the maiden flight of Space Shuttle Columbia in April, 1981, and was commander of STS-7, 41-C and 41-G. Dale Gardner will be making his third trip into space, having previously served as a mission specialist on STS-8 and 51-A. Mullane flew previously as a mission specialist on 41-D. Guy Gardner and Ross will be making their first trips into space.

-more-

Also announced today was the crew for mission 51-J, scheduled for launch from the Kennedy Space Center in September, 1985. Karol J. Bobko will be mission commander. Other crew members include pilot Ronald J. Grabe and David C. Hilmers and Robert L. Stewart, mission specialists.

It will be Bobko's third Space Shuttle mission. He was pilot on STS-6 and is commander of 51-E scheduled for launch next month. Grabe and Hilmers will be making their first flights. Stewart flew as a mission specialist on 41-B and was the second person to fly the Manned Maneuvering Unit on that flight.

# # #

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Steve Nesbitt

February 20, 1985

RELEASE NO. 85-010

FLIGHT CONTROL OF 51-E

Flight control of Space Shuttle mission 51-E, scheduled for launch from the Kennedy Space Center, Florida, no earlier than March 3, will be identical to other recent civilian space missions.

The mission will be controlled from the second floor control room in Bldg. 30 at the Johnson Space Center.

Lead flight director B.R. (Randy) Stone will head up the Orbit 2 team. Stone has served as a flight director for missions 6, 8, 41-B, 41-C, 41-D and 51-A. He was lead flight director for the 41-D mission. T. Cleon Lacefield will direct the ascent and entry phases of flight control, having served in that capacity on several previous flights.

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Maj. Charles W. Shaw will head the Orbit 1 team, and J. Milton Heflin will serve his first mission as a flight director, leading the planning team. Shaw served as a flight director during mission 51-C.

Specific console positions in the Flight Control Room, their call signs and functions are:

Flight Director (Flight) - has overall responsibility for the conduct of the mission and real-time decision-making.

Capsule Communicator (CAPCOM) - Communicates with the flight crew on orbit.

Data Processing Systems Engineer (DPS) - Responsible for data processing hardware and executes software for the vehicle's five onboard general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - Monitors cryogenics levels for fuel cells and propulsion systems, cooling systems, AC and DC power distribution systems, instrumentation systems, transducers and lighting.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - Monitors mechanical systems such as auxillary power units, hydraulic systems, payload bay doors, vents and vent doors and the Remote Manipulator System.

Flight Dynamics Officer (FIDO) - Responsible for monitoring powered phase of the mission, orbital events and trajectories. Monitors vehicle energy levels during entry.

Guidance Officer (Guidance) - Monitors onboard navigation and guidance software.

Flight Surgeon (Surgeon) - Responsible for advising the flight director of the crew's health.

Booster Systems Engineer (Booster) - Responsible for monitoring the vehicle's main engine and solid booster propulsion systems during the ascent phase of the flight and monitoring the purging system before entry.

Propulsion Systems Engineer (Prop) - Monitors the status of the reaction control system and orbital maneuvering system engines during all phases of flight.

Guidance, Navigation and Control Systems Engineer (GNC) -Responsible for all inertial navigation systems hardware, radio navigation systems hardware, radio navigation aids and digital autopilot systems.

Ground Control (GC) - Responsible for configuring for acquisition or loss of signal and status of ground support equipment.

Integrated Communications Systems Engineer (INCO) - Responsible for onboard communications system configuration.

Operations Integration Officer (OIO) - Implements mission control procedures and coordinates and controls group displays and clocks in the control center.

Flight Activities Officer (FAO) - Responsible for flight crew checklists, procedures and timelines.

Payloads Officer (Payloads) - Coordinates all payloads activities with the POCC (payload operations control center).

Personnel assigned to Mission 51-E flight control teams follow:

	Ascent/Entry/Orbit 1	Orbit 2	Planning
Flight Director	T.C.Lacefield (a/e) C.W. Shaw (orbit 1)	B.R. Stone	J.M. Heflin
CAPCOM	R.N. Richards (a/e) R.E. McNair (orbit 1)	R.M. Mullane	D.C. Hilmers
Booster	J.M. Howard		
GC	N.R. Talbott J. Snyder	J.M. Conditt W.E. Murray	C.R. Capps R. Marriott
Surgeon	D. Stewart (ascent and other active flight phases) S. Pool and J. Logan (entry)		
OIO	Jim Wallace	C. Blacknall	K. Anson
Payloads	J.E. Hoover	R.M. Kelso J.L. Clement	J.R.Simons
Fido	B.D. Perry (ascent) P.J. Burley (orb 1) G.T. Oliver (entry)	E.P. Gonzalez	J.D. Rask
Guidance	T. E. Dyson (ascent) W. S. Presley (entry)		
FAO	K.F. Elhers	P.L. Engelauf	D.M. Maschoff
DPS	A.F. Algate	G.W. Knori	M. Darnell
EECOM	M.D. Louis	B.N. Pearson	P.M. Joyce
GNC	E.F. Trlica	C.K. Alford	J.M. Webb
INCO	R.E. Castle	A.L. Baker	E.B. Walters
Prop	C.D. Young	L.J. Schmitt	R.D. Jackson
RMU	R.L. Lofton	R.E. Anders	E.L. Lockwood

NASA-JSC

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

John Lawrence
RELEASE NO. 85-010

For Release
February 22, 1985

NOTE TO EDITORS

A news conference with the astronaut crew of Space Shuttle Mission 51-D will be held at Johnson Space Center, Houston, at 11:30 a.m. CST Friday, March 1.

On Thursday, Feb. 28, a series of background briefings will be conducted to discuss mission timelines, objectives and experiments. The first will be at 9 a.m. with lead flight director Jay Greene. All briefings will be held in Bldg. 2, room 135.

The launch of 51-D is scheduled for March 19. Crewmembers are Daniel C. Brandenstein, commander; John O. Creighton, pilot; Shannon W. Lucid, John M. Fabian and Steven R. Nagle mission specialists; Greg Jarvis and Charles Walker, payload specialists.

# # #

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

John Lawrence
RELEASE NO. 85-011

For Release
March 5, 1985

SIXTEENTH LUNAR AND PLANETARY SCIENCE CONFERENCE

The 16th Lunar and Planetary Science Conference will be held March 11-16 at NASA's Johnson Space Center. It will be highlighted by a special session outlining exploration programs planned by the United States and the Soviet Union.

The session begins at 8 p.m. Monday, the opening day of the conference. It will also include discussion of major trends in space science, and the possible role of the space station in planetary exploration. Speakers will include Dr. Geoffrey Briggs, director of the Solar System Exploration Division, NASA Headquarters; Dr. V. L. Barsukov, Vernadsky Institute of Geochemical and Analytical Chemistry, USSR Academy of Sciences; Dr. Eugene Levey, chairman of the Planetary Sciences Department, University of Arizona; and Dr. Ronald Greely, a planetary scientist from Arizona State University.

Twenty-seven regular sessions are scheduled, involving 315 oral presentations taken from 497 abstracts which have been accepted for publication in the official conference proceedings.

Two other opening day special sessions are considered of major significance. The Florensky Memorial Symposium begins at 8 a.m., and will be devoted to a discussion of Venus. Results from the Soviet probes of Venus are anticipated, including the geology of the northern latitudes as revealed by the Venera 15 and 16 probes, recent high resolution images from the Arecibo Observatory, and an update on the U.S. Pioneer Venus probe.

-more-

At 1:30 p.m. the Shergotty Consortium will focus on the debate concerning meteorites which may have originated from the surface of Mars.

The conference also affords scientists the opportunity to view lunar rocks from which slices or sections have been provided for study. Researchers rarely see mother rocks from which samples originate.

Additionally, the Lunar and Planetary Science Institute's Image Processing Facility will conduct an open house, and its Geophysical Data Facility will be demonstrated.

Conference sessions will be held in JSC's Gilruth Recreation Center.

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(NOTE TO EDITORS: News media representatives may attend any or all conference sessions. Abstracts and a detailed schedule are available at the JSC News Center, Bldg. 2, and at the Gilruth Recreation Center.)

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-012

For Release
March 21, 1985

NOTE TO EDITORS: STS-51B/SPACELAB 3 BACKGROUND BRIEFINGS

Background briefings and a flight crew press conference for Space Shuttle Mission 51-B, the Spacelab 3 flight, will be held Monday and Tuesday, March 25 and 26.

A series of three background briefings will be held Monday beginning at 1 p.m., CST, with lead flight director Gary Coen in Room 135, Bldg. 2, at the Johnson Space Center, Houston, followed by Spacelab Operations and Science overview briefings at 2 p.m and 3 p.m., respectively, from the Marshall Space Flight Center, Huntsville, Ala.

Joe Cremin, Spacelab 3 mission manager, will discuss the general content of the flight, followed by Spacelab 3 Mission Scientist Dr. George Fichtl.

The 51-B crew will hold a press conference at 11:30 am. Tuesday in Houston. Robert F. Overmyer will command the flight. Other members of the crew include pilot Frederick D. Gregory, mission specialists Don L. Lind, Norman E. Thagard, and William E. Thornton, and payload specialists Lodewijk van den Berg (EG&G Corp.) and Taylor G. Wang (Jet Propulsion Laboratory).

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Brian D. Welch
RELEASE NO. 85-013

For Release
April 5, 1985

GLYNN LUNNEY TO LEAVE SPACE AGENCY

National Space Transportation System Program Manager Dr. Glynn S. Lunney, who was a member of the Space Task Group which inagurated U.S. manned space flight, has announced his intention to leave NASA in the near future. Lunney said he plans to pursue interests outside government. The exact date of his departure has not been announced.

Lunney, whose career almost exactly spans the history of American efforts in space, began his government service with NASA's predecessor, the National Advisory Committee for Aeronautics, at the Lewis Research Center in Cleveland in May 1958. From his position there as an aerospace research engineer, he moved to the Space Task Group in September 1959.

When the Space Task Group became the Manned Spacecraft Center, Lunney moved with it to Houston from the Langley Research Center in Hampton, Va. From April 1962 to August 1964 he was Head of the Mission Logic and Computer Hardware Section. In August 1964, he became Chief of the Flight Dynamics Branch and

-more-

was also appointed as a Flight Director for the Gemini program in the same year that Mission Control began its operations in Houston.

In July 1968, one year before the first manned landing on the Moon, Lunney was appointed Chief of the Flight Director's Office, a position he held until March 1972.

At that time, he became Special Assistant to the Manager of the Apollo Spacecraft Program, and then three months later, in June 1972, became Manager for Operations, Experiments and Government Furnished Equipment for the Apollo Spacecraft Program.

In March 1973, he became Manager of the Apollo Spacecraft Program. From 1973 to 1975, he also served as Manager of the Apollo-Soyuz Test Project.

In July 1975, Lunney's career changed course towards a new type of space flight with the Space Shuttle. At that time he became Manager of the Shuttle Payload Integration and Development Program, which was redesignated the STS Operations Program in July 1980. In that role, he was responsible for directing the planning and implementation for all payloads and payload carriers to be used in the Shuttle program.

During his tenure as STSOP manager, he was detailed to Headquarters from November 1976 to July 1977 as Deputy Associate Administrator for Space Flight, and from November 1979 to July 1980 as Acting Associate Administrator for Space Transportation Operations.

In 1981, he was appointed to his current position as Manager

of the National Space Transportation Systems Program. Responsibilities of the job include overall systems management and integration of all elements of the program. The office is directly responsible for vehicle system engineering, design and integration, including the integration of payloads and payload carriers aboard the Shuttle.

Lunney has earned numerous awards and citations during his career, including the Lawrence Sperry Award, the Arthur S. Fleming Award, the Louis W. Hill Space Transportation Award, the Allan D. Emil Memorial Award, the W. Randolph Lovelace II Award, an honorary doctorate of laws from the University of Scranton, three NASA Group Achievement Awards, two NASA Distinguished Service Medals, an Outstanding Leadership Medal, and Senior Executive Service designations.

He is a member of Pi Tau Sigma, Tau Beta Pi, and has been elected to the rank of fellow in both the American Astronautical Society and the American Institute of Aeronautics and Astronautics.

He was born in Old Forge, Pennsylvania in November 1936 and attended the University of Scranton from 1953 to 1955. He received a bachelor of science degree in aeronautical engineering from the University of Detroit in 1958.

Lunney and his wife, the former Marilyn Jean Kurtz, have four children and reside in Friendswood, Texas.

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NASA-JSC

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

John Lawrence
RELEASE NO. 85-014

April 8, 1985

NOTE TO EDITORS

Media representatives are invited to attend the landing and departure of the Space Shuttle orbiter, Atlantis, at Ellington Field on Friday, April 12.

The fourth of NASA's fleet of operational vehicles is scheduled to land at 11:50 a.m. (CST) following a flyover of the South Houston and Clear Lake areas. The 747 Shuttle Carrier Aircraft will be refueled at Ellington and depart at 1:30 p.m. for its two and one-half hour flight to Kennedy Space Center, Fla. This schedule is contingent upon an on-time launch of mission 51-D, scheduled for 7:04 a.m., as well as weather conditions between Ellington and Edwards Air Force Base, Calif. The JSC Media Services Branch will provide schedule updates on the day of the event.

Atlantis' maiden voyage into space will be in late September on a mission dedicated to the Department of Defense.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Brian Welch

April 9, 1985

RELEASE NO. 85-015

FLIGHT CONTROL OF 51-D

Flight control of Space Shuttle mission 51-D, scheduled for launch from the Kennedy Space Center, Florida, no earlier than April 12, will be identical to other recent civilian space missions.

The mission will be controlled from the third floor Flight Control Room in Bldg. 30 at the Johnson Space Center.

Lead flight director B.R. (Randy) Stone will head up the Orbit 2 team. Stone has served as a flight director for missions 6, 8, 41-B, 41-C, 41-D and 51-A. He was lead flight director for the 41-D mission. T. Cleon Lacefield will direct the ascent and entry phases of flight control, having served in that capacity on several previous flights.

--more--

John T. Cox will head the Orbit 1 team, and J. Milton Heflin will serve his first mission as a flight director, leading the planning team. Cox first served as a flight director on STS-5 and is a veteran of several subsequent missions.

STS 51-D will be the last mission in which a full-up Operations Integration Officer position will be manned. Beginning with flight 51-B, the OIO position will be phased down and ultimately combined this summer with the Ground Control (GC) position. The change will combine two positions with somewhat similar responsibilites and economize on manpower. During 51-D, GC's will begin cross training at the OIO console.

Specific console positions in the Flight Control Room, their call signs and functions are:

Flight Director (Flight) - has overall responsibility for the conduct of the mission and real-time decision-making.

Capsule Communicator (CAPCOM) - Communicates with the flight crew on orbit.

Data Processing Systems Engineer (DPS) - Responsible for data processing hardware and executes software for the vehicle's five onboard general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - Monitors cryogenics levels for fuel cells and propulsion systems, cooling systems, AC and DC power distribution systems, instrumentation systems, transducers and lighting.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - Monitors mechanical systems such as auxillary power units, hydraulic systems, payload bay doors, vents and vent doors and the Remote Manipulator System.

Flight Dynamics Officer (FDO) - Responsible for monitoring powered phase of the mission, orbital events and trajectories. Monitors vehicle energy levels during entry.

Guidance Officer (Guidance) - Monitors onboard navigation and guidance software.

Flight Surgeon (Surgeon) - Responsible for advising the flight director of the crew's health.

Booster Systems Engineer (Booster) - Responsible for monitoring the vehicle's main engine and solid booster propulsion systems during the ascent phase of the flight and monitoring the purging system before entry.

Propulsion Systems Engineer (Prop) - Monitors the status of the reaction control system and orbital maneuvering system engines during all phases of flight.

Guidance, Navigation and Control Systems Engineer (GNC) -Responsible for all inertial navigation systems hardware, radio navigation systems hardware, radio navigation aids and digital autopilot systems.

Ground Control (GC) - Responsible for configuring for

acquisition or loss of signal and status of ground support equipment.

Integrated Communications Systems Engineer (INCO) - Responsible for onboard communications system configuration.

Operations Integration Officer (OIO) - Implements mission control procedures and coordinates and controls group displays and clocks in the control center.

Flight Activities Officer (FAO) - Responsible for flight crew checklists, procedures and timelines.

Payloads Officer (Payloads) - Coordinates all payloads activities with the POCC (payload operations control center).

Personnel assigned to Mission 51-D flight control teams follow:

	Ascent/Entry/Orbit1	Orbit 2	Planning
Flight Director	T.C.Lacefield (a/e) J.T. Cox (orbit 1)	B.R. Stone	J.M. Heflin
CAPCOM	R.N. Richards (a/e) D.C. Hilmers (orbit 1)	R.C. Springer	R.M. Mullane
Booster	J.L. Borrer		
GC	M. K. Marsh J. E. Snyder	W.E. Murray E. H. Klein	J. M. Conditt W. A. Hopkins
Surgeon	D. F. Stewart (ascent and other active flight phases) S. L. Pool and J. S. Logan (entry)		
OIO	J. E. Wallace N.R. Talbott (GC)	C. H. Blacknall C.R. Capps (GC)	K. W. Anson
Payloads	J. T. Apt	D.D. Pawkett	T.N. Bruce
FDO	B.D. Perry (ascent) P.J. Burley (orb 1) G.T. Oliver (entry)	E.P. Gonzalez	J.D. Rask
Guidance	W.S. Presley (ascent) L.P. Patterson (entry)		
FAO	D.M. Maschoff	P.L. Engelauf	R.N. Jurmain
DPS	L.A. Cheshire	R.D. Monfort	Mike Darnell
EECOM	M.D. Louis	B.N. Pearson	J.A. Carretto
GNC	E.F. Trlica	L.P. Patterson	J.M. Webb
INCO	Harold Black	J.E. Conner	E.B. Walters
Prop	C.D. Young	L.J. Schmitt	R.D. Jackson
RMU	R.L. Lofton	R.E. Anders	M.J. Ferring

# # #

51-D

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Dave Alter
RELEASE NO. 85-016

For Release
April 24, 1985

NASA CHANGES 51-B LANDING SITE TO EDWARDS AIR FORCE BASE

NASA officials have selected 12:00 noon EDT, April 29 as the launch time and date for STS mission 51-B, the Spacelab 3 flight. Officials also selected Dryden Flight Research Center, Edwards Air Force Base, California, as the primary end-of-mission landing site, with Kennedy Space Center as an alternate. Landing is set for May 6 at 9:03 a.m. PDT.

The decision to choose Dryden over Kennedy was based on the recent landing experience following the STS 51-D mission where Discovery's right-hand braking systems locked up causing a tire to blowout during the landing. Landing conditions for this past mission included a crosswind - the first experience at Kennedy with such conditions - and a higher than usual sink-rate.

The decision to land at Dryden for the next flight will provide more safety margin for the Challenger's tires and brake system because of the availability of the unrestricted lakebed and the smoother surface. The Spacelab 3 payload will be a heavy return weight for an orbiter. Until all the many factors affecting the landing conditions are better understood, management has elected to choose the Dryden facility for the next landing.

The decision to land at Dryden for the next flight only will enable engineers to determine what corrective actions are appropriate before returning to the KSC runway for nominal end-of-mission landings.

-end-

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Terry White

Release No. 85-017

April 26, 1985
2 pm CST

NASA PICKS OMEGA FOR SPACE CENTER CUSTODIAL SERVICES

The NASA Johnson Space Center, Houston has selected Omega Services, Inc., Houston, for negotiations leading to award of a cost-plus-award-fee contract for custodial services at the Center.

Services to be provided include general custodial services; special cleaning services to public display areas, pedestal floor areas, and cafeterias; and refuse collection and disposal at the Center. Similar work will be done at JSC facilities at Ellington Field.

Omega Services, Inc.'s proposed cost and fee for providing these services from June 1, 1985 through May 30, 1986 is approximately $2.3 million. NASA has the option of extending the contract for four additional ore-year periods. Omega is a small business concern.

Proposals cames from 16 companies in Texas, Louisiana, Alabama and Indiana.

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NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Steve Nesbitt
RELEASE NO. 85-018

IMMEDIATE

FLIGHT CONTROL OF SPACE SHUTTLE MISSION 51-B

Flight control of Space Shuttle mission 51-B, the Spacelab 3 flight to be launched April 29 from the Kennedy Space Center, Florida, will be virtually identical to the first Spacelab mission, flown in late 1983.

Air/ground communications and command functions will originate from the Flight Control Room and the Payload Operations Control Center, both located on the second floor on Bldg. 30 at the Johnson Space Center.

The regular JSC flight control teams will monitor dynamic flight phases as well as orbiter and Spacelab systems, while payload controllers from the Marshall Space Flight Center and scientific investigators work with the astronaut crew on experiment operations.

Lead flight director Gary E. Coen will be serving his eighth Space Shuttle mission as a flight director and his first time as lead. He will direct the Orbit 1 team. Other flight directors include T. Cleon Lacefield, ascent and entry flight phases; William D. "Bill" Reeves, Orbit 2, and Granville A. "Al" Pennington, Orbit 3.

Teams will serve nine-hour shifts in Flight Control Room-1, on the second floor of Bldg. 30's Mission Control wing. Since the astronauts working aboard Challenger and in the Spacelab will work in shifts, all flight control teams will be actively working with and talking with the crew. There is no designated planning team.

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Specific console positions in the Flight Control Room, their call signs and functions are:

Flight Director (Flight) - has overall responsibility for the conduct of the mission and real-time decision-making.

Capsule Communicator (CAPCOM) - Communicates with the flight crew on orbit.

Data Processing Systems Engineer (DPS) - Responsible for data processing hardware and executes software for the vehicle's five onboard general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - Monitors cryogenics levels for fuel cells and propulsion systems, cooling systems, AC and DC power distribution systems, instrumentation systems, transducers and lighting.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - Monitors mechanical systems such as auxillary power units, hydraulic systems, payload bay doors, vents and vent doors and the Remote Manipulator System.

Flight Dynamics Officer (FIDO) - Responsible for monitoring powered phase of the mission, orbital events and trajectories. Monitors vehicle energy levels during entry.

Guidance Officer (Guidance) - Monitors onboard navigation and guidance software.

Flight Surgeon (Surgeon) - Responsible for advising the flight director of the crew's health.

Booster Systems Engineer (Booster) - Responsible for monitoring the vehicle's main engine and solid booster propulsion systems during the ascent phase of the flight and monitoring the purging system before entry.

Propulsion Systems Engineer (Prop) - Monitors the status of the reaction control system and orbital maneuvering system engines during all phases of flight.

Guidance, Navigation and Control Systems Engineer (GNC) -Responsible for all inertial navigation systems hardware, radio navigation systems hardware, radio navigation aids and digital autopilot systems.

Ground Control (GC) - Responsible for configuring for acquisition or loss of signal and status of ground support equipment.

Integrated Communications Systems Engineer (INCO) - Responsible for onboard communications system configuration.

Operations Integration Officer (OIO) - Implements mission control procedures and coordinates and controls group displays and clocks in the control center.

Flight Activities Officer (FAO) - Responsible for flight crew checklists, procedures and timelines.

Payloads Officer (Payloads) - Coordinates all payloads activities with the POCC (payload operations control center).

Personnel assigned to Mission 51-B flight control teams follow:

POSITION	A/E/ORBIT 1	ORBIT 2	ORBIT 3
Flight Director	T.C. Lacefield/G. Coen	W.D. Reeves	G.A. Pennington
CAPCOM	R.N. Richards (A&E)/D. Leestma(O1)	R. Springer	R.M. Mullane
Surgeon*	Drs. J. Davis or D. Stewart during active phases		
OIO	W.B. Boatman	C.H. Blacknall	S.G. Van Horn
Payloads	W.A. Middleton	A.R. Johnson	S.B. Castle
FIDO	G.T. Oliver(A)/N.E. Combs (E)	J.D. Rask	W. D. Jones
	P.J. Burley (O1)		
Guidance	T.E. Dyson(A)/R.L. Patterson(E&O1)	T.E. Dyson	D.P. Kinkel
FAO	N.A. Woodbury	D.L. Freeman	G.L. Shinkle
DPS	A.F. Algate(A&E)/R.D. Monfort	G.W. Knori	------
EECOM	J.S. Pfleeger(A&E)/M.D. Louis	R.J. Rector	P.M. Joyce
GNC	W.L. Shelton(A&E)/	C.K. Alford	J.M. Webb
	R.E Yackovetsky		
INCO	R.W. Rodriguez	J.F. Muratore	R.E. Castle
Prop	C.D. Young(A&E)/J.H.Johnson	L.J. Hautzinger	N.W. Hale
RMU	R.E. Anders(A&E)/D.P.Huntsman	R.L. Lofton	J.S. McClendon
Booster*	J.M. Howard	--	--
GC*	N. Talbert & J. Snyder (A)/J. Wells and W. Hopkins (orbit 1)/D. Halter & C. Capps (Orbit 2)		

*staffing does not follow flight control team shift schedule

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
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For Release

RELEASE NO. 85-019

May 4, 1985

ARABSAT PAYLOAD SPECIALIST ACTIVITIES

An Arabsat payload specialist who will fly on the 51-G Space Shuttle mission in June will conduct 70mm photography over Saudi Arabia, 35mm photography of a fluids experiment, and will participate in the French Posture Experiment.

The payload specialist, Sultan Salman Abdelazize Al-Saud, is flying as part of the reimbursable agreement with the Arab Satellite Communications Organization covering the launch of the Arabsat 1B communications satellite.

The seven-day STS mission is scheduled for launch no earlier than June 12, 1985.

The 70mm camera will be used to take pictures on daylight orbital passes over Saudi Arabia.

-more-

The 35mm camera will be used to document such phenomena as surface tension effects on mixed fluids in the absence of gravity.

Television will be used to document firings of the orbiter's orbital maneuvering system and reaction control system engines in an ionized gas experiment.

Other activities include photography of the new moon in a lunar crescent observation and assisting the French payload specialist as a test subject in the French Posture experiment.

Crew of the 51-G mission is: Daniel C. Brandenstein, commander; John O. Creighton, pilot; Shannon W. Lucid, John M. Fabian and Steven R. Nagel, mission specialists; Patrick Baudry, French payload specialist; and Sultan Salman Abdelazize Al-Saud, Arabsat payload specialist. Backup payload specialist for Arabsat is Abdulmohsen Hamad Al-Bassam.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-020

For Release
IMMEDIATE

NOTE TO EDITORS: 51-B CREW POSTFLIGHT PRESS CONFERENCE SET

The astronaut and payload specialist crew from the recent Space Shuttle mission 51-B will hold a post-flight press conference Monday at 2 p.m. at the NASA Johnson Space Center in Houston.

Shuttle commander Robert F. Overmyer, pilot Frederick D. Gregory, mission specialists Don L. Lind, William E. Thornton and Norman E. Thagard, and payload specialists Taylor Wang and Lodewijk van den Berg will narrate a highlights film and slides from the Spacelab 3 flight which ended Monday.

The press conference will be held in Room 135 of Bldg. 2.

# # #

May 9, 1985

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White

For Release

RELEASE NO. 85-021

IMMEDIATE

NOTICE TO EDITORS: 51-G CREW HOLDS PREFLIGHT PRESS CONFERENCE

The flight crew for Space Shuttle flight 51-G, scheduled for launch no earlier than June 12, will hold its final preflight press conference May 28 at the NASA Johnson Space Center News Room in Building 2.

Briefings on 51-G payloads---Arabsat, Morelos, Spartan satellites, and French and Arab scientific experiments---will begin at 9:00 am CDT, followed at 1:00 pm CDT by a flight profile overview by lead flight director Larry Bourgeois.

The press conference with the 51-G crew will begin at 2:30 pm CDT.

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May 22, 1985

NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Steve Nesbitt
RELEASE NO: 85-022

May 31, 1985

NASA NAMES ASTRONAUT CREWS FOR ULYSSES, GALILEO MISSIONS

The National Aeronautics and Space Administration today named the astronaut crews for two Space Shuttle flights scheduled for 1986.

Commanding flight 61-F, scheduled for launch no earlier than May 15, 1986, will be Frederick H. Hauck. He first flew as pilot on Space Shuttle flight 7 in June, 1983, and was commander of mission 51-A in November, 1984.

The 61-F mission is a flight to deploy the Ulysses (International Solar Polar) spacecraft. It will be the first mission using the liquid-fueled Centaur upper stage.

Other crew members include Roy D. Bridges, pilot, and mission specialists David C. Hilmers and J. Mike Lounge. Bridges also will be pilot of the Spacelab 2 flight scheduled for no earlier than July 15, 1985. Hilmers is scheduled to fly as a mission specialist on the DOD flight, STS 51-J in September 1985. Lounge will be a mission specialist on the 51-I flight in August 1985.

David M. Walker will command the Galileo mission, STS 61-G, set for launch on May 21, 1986, six days after the Ulysses launch. Walker flew as pilot on STS 51-A.

The Galileo mission, also using the Centaur upper stage, will explore the environment of Jupiter and its moons.

Other crew members for 61-G include pilot Ronald J. Grabe and mission specialists John M. Fabian and James van Hoften. Grabe is scheduled to fly as pilot of the 51-J mission in September 1985. Fabian, who first flew on STS-7, is a mission specialist on STS 51-G, scheduled for launch this June. Van Hoften first flew on the Solar Maximum satellite repair mission, 41-C, in April, 1984. He also has an upcoming flight, mission 51-I in August this year, to salvage the Syncom IV-3 satellite.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-023

For Release
June 4, 1985

NASA SELECTS 13 ASTRONAUT CANDIDATES

The National Aeronautics and Space Administration today announced the selection of 13 new astronaut candidates, six pilots and seven mission specialists.

The candidates, two of whom are women, will report to the Johnson Space Center in Houston in late summer to begin a one-year period of training and evaluation. Successful completion of the training period will make them eligible for assignment to future Space Shuttle flights.

Five of the candidates are civilians. There are three from the Navy, three from the Air Force, one from the Marine Corps and one from the Army.

They join 90 current members of the astronaut corps. The most recent group of 17 candidates, selected in 1984, has been converted to full astronaut status. Counting the new group, 157 persons have been named as NASA astronauts since the beginning of the program.

NASA considered 33 civilians from the selection rosters developed during the 1984 selection process and 133 nominees from the military services. Fifty-nine of the highest ranking applicants were interviewed and given medical evaluations at JSC.

The candidates are:

-more-

Pierre J. Thuot, Lieutenant, U. S. Navy, Mission Specialist
Born: May 19, 1955 - Groton, Connecticut
Current Residence: California, Maryland

Education: Fairfax High School, Fairfax, Virginia
BS, Physics, U. S. Naval Academy, 1977
MS, Systems Management, Univ. of So. Calif., 1985

Present Position: Airborne Systems Flight Instructor
U. S. Naval Test Pilot School
Patuxent River, Maryland

Parents: Mr. & Mrs. Clifford G. Thuot, Fairfax, Virginia

Robert D. Cabana, Major, U. S. Marine Corps, Pilot
Born: January 23, 1949 - Minneapolis, Minnesota
Current Residence: Lexington Park, Maryland

Education: Washburn High School, Minneapolis Minnesota
BS, Mathematics, U. S. Naval Academy, 1971

Present Position: Assistant Operations Officer
Marine Aircraft Group 12
Marine Corps Air Station
Iwakuni, Japan

Parents: Mr. & Mrs. Theodore J. Cabana, Minneapolis, Minn.

Brian Duffy, Capt., U. S. Air Force, Pilot
Born: June 20, 1953 - Boston, Massachusetts
Current Residence: Niceville, Florida

Education: Rockland High School, Rockland, Massachusetts
BS, Mathematics, U. S. Air Force Academy, 1975
MS, Systems Management, Univ. of So. Calif., 1981

Present Position: Director of F-15 Tests
3247th Test Squadron
Eglin AFB, Florida

Parents: Mr. & Mrs. Daniel E. Duffy, Rockland, Mass.

Jerome Apt, PhD, Mission Specialist
Born: April 28, 1949 - Springfield, Mass.
Current Residence: Houston, Texas

Education: Shady Side Academy, Pittsburgh, Pennsylvania
BA, Physics, Harvard College, 1971
PhD, Physics, Mass. Institute of Technology, 1976.

Present Position: Payload Officer
Operations Division
Johnson Space Center
Houston, Texas

Parents: Mr. & Mrs. Jerome Apt, Jr., Pittsburgh, Penn.

Michael A. Baker, Lt. Cmdr., U. S. Navy, Pilot
Born: October 27, 1953 - Memphis, Tennessee
Current Residence: Amesbury, Wiltshire, England

Education: Lemoore Union High School, Lemoore, California
BS, Aerospace Engineering, Univ. of Texas, 1975

Present Position: Fixed Wing Test Pilot Tutor
Empire Test Pilots' School
Boscombe Downs
Salisbury, Wiltshire, United Kingdom

Parents: Mr. & Mrs. Clyde E. Baker, Lemoore, California

Charles D. Gemar, Capt., U. S. Army, Mission Specialist
Born: August 4, 1955 - Yankton, South Dakota
Current Residence: Martinez, Georgia

Education: Scotland Public High School, Scotland, So. Dakota
BS, Engineering, U. S. Military Academy, 1979

Present Position: Chief, Operations Branch
Command Aviation Office
Hunter Army Airfield, Georgia

Parents: Mr. & Mrs. Leighton A. Gemar, Scotland, So. Dakota

Linda M. Godwin, PhD, Mission Specialist
Born: July 2, 1952 - Cape Girardeau, Missouri
Current Residence: Houston, Texas

Education: Jackson High School, Jackson, Missouri
BS, Mathematics & Physics, S. E. Missouri St., 1974
MS, Physics, University of Missouri, 1976
PhD, Physics, University of Missouri, 1980

Present Position: Payload Officer
Operations Division
Johnson Space Center
Houston, Texas

Parents: Mr. & Mrs. James M. Godwin, Oak Ridge, Missouri

Terence T. Henricks, Major, USAF, Pilot
Born: July 5, 1952 - Bryan, Ohio
Current Residence: Edwards, California

Education: Woodmore High School, Elmore, Ohio
BS, Civil Engineering, U. S. Air Force Acad., 1974
Masters of Public Admin., Golden Gate Univ., 1982

Present Position: F-16 Test Pilot
57th Fighter Weapons Wing (TAC)
Edwards AFB, California

Parents: Mother: Ms. Martha B. Reising, Oak Harbor, Ohio
Father: Mr. Terry W. Henricks, Montpelier Ohio

Richard J. Hieb, Mission Specialist
Born: Sept. 21, 1955 - Jamestown, North Dakota
Current Residence: Houston, Texas

Education: Jamestown High School, Jamestown, North Dakota
BA, Math & Physics, N. W. Nazarene College, 1977
MS, Aerospace Engineering, Univ. of Colorado, 1979

Present Position: Flight Activities Officer
Operations Division
Johnson Space Center
Houston, Texas

Parents: Mr. & Mrs. Fred Hieb, Jamestown, North Dakota

Tamara E. Jernigan, Mission Specialist
Born: May 7, 1959 - Chattanooga, Tennessee
Current Residence: Berkeley, California

Education: Santa Fe High School, Santa Fe Springs, California
BS, Physics, Stanford University, 1981
MS, Engineering Science, Stanford University, 1983
MS, Astronomy, Univ. of California-Berkeley, 1985

Present Position: Research Scientist
Ames Research Center
Moffett Field, California

Parents: Mother: Ms. Mary P. Jernigan, Santa Fe Springs, Cal.
Father: Mr. Terry L. Jernigan, Lynwood, California

Carl J. Meade, Capt., U. S. Air Force, Mission Specialist
Born: November 16, 1950 - Chanute AFB, Illinois
Current Residence: Lancaster, California

Education: Randolph High School, Randolph AFB, Texas
BS, Electronics Engineering, Univ.. of Texas, 1973
MS, Electronics Eng., Cal. Institute of Tech., 1975

Present Position: Experimental Test Pilot Instructor
U. S. Air Force Test Pilot School
Edwards AFB, California

Parents: Mr. & Mrs. John Meade, Universal City, Texas

Stephen S. Oswald, Pilot
Born: June 30, 1951 - Seattle, Washington
Current Residence: Houston, Texas

Education: Bellingham High School, Bellingham, Washington
BS, Aerospace Eng., U. S. Naval Academy, 1973

Present Position: Aerospace Engineer and Pilot
Aircraft Operations Division
Johnson Space Center
Houston, Texas

Parents: Mr. & Mrs. Harold Oswald, Bellingham, Washington

Stephen D. Thorne, Lt. Cmdr., U. S. Navy, Pilot
Born: February 11, 1953, Frankfurt-on-Main, West Germany
Current Residence: Orange Park, Florida

Education: T. L. Hanna High School, Anderson, So. Carolina
BS, Engineering, U. S. Naval Academy, 1975

Present Position: Squadron Aviation Safety Officer
STRKFITRON 132
Naval Air Station
Cecil Field, Florida

Parents: Mr. & Mrs. James H. Thorne, Anderson, So. Carolina

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-024

For Release
June 7, 1985

NASA ALTERS ASTRONAUT SELECTION PROCESS

The National Aeronautics and Space Administration this summer will change the way in which it solicits applications for astronaut positions.

Applications from civilians will be accepted on a continuing basis beginning August 1, 1985. The military services will provide nominees to NASA on an annual basis. Selections usually will be made in the spring each year with successful candidates reporting in the summer.

The number of candidates selected each year will be determined by mission requirements and the attrition rate of the astronaut corps.

Both pilot and mission specialist astronauts will be selected. Pilot astronauts are responsible for control of the Space Shuttle during launch and entry and on-orbit maneuvers. Mission specialist responsibilities include management and operations of Space Shuttle systems and support to payloads and experiments during flight.

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Minimum qualifications for pilot astronauts are:

-A bachelor's degree from an accredited institution in engineering, physical science, biological science or mathematics.

-1,000 hours pilot-in-command time in jet aircraft.

-Ability to pass a NASA Class I flight physical.

-Height between 64 and 76 inches.

Minimum qualifications for a mission specialist astronaut are:

-A bachelor's degree from an accredited institution in engineering, physical science, biological science or mathematics.

-Degree must be supplemented by three years of related professional experience. Advanced degrees are desirable and may substitute for experience.

-Ability to pass a NASA Class II flight physical.

-Height between 60 and 76 inches.

NASA has an affirmative action goal of including qualified minorities and women among newly-selected astronauts.

For further information, write:

NASA Johnson Space Center

AHX/Astronaut Selection Office

Houston, TX 77058

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE NO. 85-025

For Release
IMMEDIATE

NASA ASSIGNS FLIGHT CONTROL TEAMS FOR SPACE SHUTTLE 51-G FLIGHT

Larry Bourgeois has been named lead flight director for Space Shuttle flight 51-G scheduled for launch from Kennedy Space Center on June 17. The ascent/entry flight control team will he headed by Cleon Lacefield, Orbit 1 team by Bourgeois, Orbit 2 team by Milton Heflin, and Planning team by Charles R. Knarr.

Each team will work an average eight-hour shift with an hour overlap for handover during the seven-day mission for orbiter Discovery in which three communications satellites will be deployed. The mission will be controlled from the second-floor Flight Control Room (FCR) in Mission Control Center-Houston.

FCR console positions, their call signs and functions are:

Flight Director (Flight) - responsible for conduct of mission and real-time decision making.

Capsule Communicator (CapCom) - in voice communications with flight crew aboard Shuttle orbiter.

June 14, 1985

-more-

Data Processing Systems Engineer (DPS) - monitors health of orbiter data processing hardware and loads software into orbiter general purpose computers (GPCs).

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - monitors fuel cell reactants, cooling systems, electrical power generation and distribution, instrumentation, cabin and payload bay lighting.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - monitors auxilliary power units (APUs), hydraulic systems, payload bay doors and vents, and the remote manipulator system (RMS).

Flight Dynamics Officer (FIDO) - monitors powered flight, orbital maneuvers and trajectory, and energy management during entry.

Guidance Officer (Guidance) - manages onboard navigation and guidance software.

Flight Surgeon (Surgeon) - monitors flight crew health.

Booster Systems Engineer (Booster) - monitors main engine and solid rocket booster (SRB) performance during ascent.

Propulsion Systems Engineer (Prop) - monitors orbiter reaction control system (RCS) and orbital maneuvering system (OMS) engines throughout flight.

Guidance, Navigation and Control Systems Engineer (GNC) - monitors inertial navigation, radio navigation hardware, digital autopilot systems.

Integrated Communications Systems Engineer (INCO) - manages orbiter communications system.

Operations Integration Officer (OIO) - manages FCR procedures and group displays.

Flight Activities Officer (FAO) - maintains and updates crew checklists and timelines.

Payloads Officer (Payloads) - coordinates payloads activities between FCR and Customer Support Room.

Public Affairs Commentator (PAO) - explains flight events in lay terms for news media and general public.

Persons assigned to these FCR console positions for flight 51-G are listed on the following page.

POSITION	ASC/ENT, ORBIT 1	ORBIT 2	PLANNING
Flight Director	Cleon Lacefield (ASC/ENT) Larry Bourgeois (Orb 1)	Milton Heflin	Charles R. Knarr
CapCom	Dick Richards-Asc/Ent Michael Coats-Asc/Ent Robert C. Springer-Orb 1	Richard M. Mullane/ James Wetherbee	David Leestma
Surgeon	Jeffrey R. Davis MD	Donald F. Stewart MD	----
OIO	Jim Wallace	Kim Anson	----
Payloads	Michael Fawcett	Michelle Brekke	Michael Hawes
FIDO	Brian Perry-Asc C. D. Epp-Orb 1 Nick Combs-Ent	Brian Jones	----
Guidance	Ted Dyson-Ent Ken Patterson-Ent	Dave Kunkel	----
FAO	K. F. Ehlers	R. L. Schaf	B. E. Ferguson
DPS	Lizabeth A. Cheshire	Michael Darnell	G. W. Knori
EECOM	J. S. Pfleeger	M. D. Louis	B. N. Pearson
GNC	R. E. Yackovetsky	L. P. Patterson	W. L. Shelton
INCO	Harold Black	R. W. Rodriguez	J. E. Conner
Prop	C. D. Young	A. L. Schmitt	N. W. Hale
RMU	R. E . Anders	G. H. Ulrich	R. L. Lofton
Booster	J. L. Borrer	----	----
PAO	Terry White	John Lawrence	Billie Deason/ Janet Ross

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NASA-JSC

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Brian Welch
RELEASE NO. 85-026

For Release
June 19, 1985

Astronaut Dr. Joseph P. Allen to leave NASA

Dr. Joseph P. Allen has announced his plans to resign from NASA effective July 1.

Allen, a NASA astronaut since August 1967, was a crew member on STS-5, the Space Shuttle's first operational mission, and flew two years later on history's first space salvage mission aboard STS 51-A.

Allen will become Executive Vice President of Space Industries Inc., a Houston-based firm pursuing ventures in the utilization and commercial use of space. The President of Space Industries is Dr. Maxime A. Faget, former Director of Engineering and Development at the Johnson Space Center. In 1984, the firm signed a Memorandum of Understanding with NASA to design and build the world's first man-tended space platform. Space Industries is currently negotiating further agreements for launch of the platform in 1989.

In addition to his work as an astronaut during his NASA career, Allen served as a mission scientist for Apollo 15, a staff consultant on science and technology to the President's

-more-

council on International Economic Policy, and NASA Assistant Administrator for Legislative Affairs. He is the author of "Entering Space: An Astronaut's Odyssey," a personal account of the spaceflight experience.

A native of Crawfordsville, Indiana, Allen attended Mills School and Crawfordsville High School and received a bachelor of arts degree in math and physics from DePauw University in 1959. He earned his master's of science and a doctorate in physics from Yale University in 1961 and 1965, respectively.

Allen was a research associate in the Nuclear Physics Laboratory at the University of Washington prior to his selection as an astronaut. He also was a staff physicist at the Nuclear Structure Laboratory at Yale University from 1965 to 1966 and from 1963 to 1967 served as a guest research associate at the Brookhaven National Laboratory.

After his selection as a scientist-astronaut in August 1967, Allen underwent flight training at Vance Air Force Base, Oklahoma. He has since logged more than 3,000 hours flying time in jet aircraft. He served as a mission scientist while part of the astronaut support crew for Apollo 15 and he also served as capsule communicator on Apollo 15 and Apollo 17.

From 1975 to 1978, Allen worked in Washington D.C. at NASA Headquarters as Assistant Administrator for Legislative Affairs. He returned to JSC as a senior scientist astronaut in 1978 and was assigned to the Operations Mission Development Group. He was on the support crew for STS-1 and also served as entry CapCom for that mission.

In November 1982, he was a mission specialist on the four-person crew for STS-5, the first fully operational flight of the Space Shuttle. During that mission, Allen participated in the deployment of the first two communications satellites from the Shuttle. Almost exactly two years later, in November 1984, he flew aboard STS 51-A on the second flight of the Orbiter Discovery. During that mission, he participated in the deployment of another two communications satellites and, in the first space salvage mission in history, helped successfully retrieve the Palapa B-2 and Westar VI satellites for return to Earth. For their efforts in that space salvage, the 51-A crew was honored by Lloyd's of London, one of the principal satellite underwriters, with the Lloyd's Silver Medal for meritorious service.

Allen has received numerous other awards and special honors. In 1959, he won a Fulbright Scholarship to Germany and studied there for one year. In 1969, he won the Outstanding Flying Award, Class 69-06 at Vance Air Force Base. For his work on the Apollo 15 Lunar Traverse Planning Team, and later on the Outlook for Space Study Team, he was the recipient of two NASA Group Achievement Awards in 1971 and 1974, respectively. In 1972, he was presented the Yale Science and Engineering Association Award for advancement of basic and applied science, and also was presented the Depauw University Distinguished Alumnus Award. During the 1970s, he also was awarded the NASA Exceptional Scientific Achievement Medal (1973), the NASA Exceptional Service Medal (1978), and a NASA Superior Performance

Award. In 1983 he was given an honorary Doctor of Science from DePauw University and the Komarov Diploma from the Federation Aeronautique Internationale.

He and his wife, the former Bonnie Jo Darling of Elkhart, Indiana, have two children and reside in the Clear Lake area.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-027

For Release
IMMEDIATE

NASA NAMES ASTRONAUT CREW FOR SPACE SHUTTLE MISSION 61-I

The National Aeronautics and Space Administration today announced the astronaut crew for Space Shuttle mission 61-I scheduled for launch from the Kennedy Space Center, Florida, no earlier than July 15, 1986.

Loren J. Shriver will command the flight which will deploy the Intelsat VI-1 and Insat 1-C communications satellites and carry the Materials Science Lab-4. The mission will be flown with the Space Shuttle Orbiter Challenger.

Other crew members currently assigned include Bryan D. O'Connor, pilot, and mission specialists Sally K. Ride, William F. Fisher and Mark C. Lee.

It will be Shriver's second mission. He was pilot on flight 51-C, the Department of Defense mission in January. O'Connor will also be making his second flight on 61-I. He is scheduled to fly as pilot on mission 61-B in November, 1985.

--more

June 17, 1985

Fisher also will be making his second trip into space. He is scheduled to fly as a mission specialist on 51-I in August, 1985. Ride flew on STS-7 in June, 1983, as America's first woman in space and again on 41-G in October, 1984.

Lee will make his initial flight on 61-I. He is the first of the 1984 group of astronauts to receive a flight assignment.

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Brian Welch
RELEASE NO. 85-028

For Release
June 20, 1985

NOTE TO EDITORS: 51-F BACKGROUND BRIEFINGS SCHEDULED

Background briefings with mission officials and the crew of STS 51-F/Spacelab 2 will be held June 23 and 24 originating from the Marshall Space Flight Center and the Johnson Space Center.

The initial briefing, to originate from Marshall, will take place at 12:30 p.m. CDT June 23. Participants will be Spacelab 2 Mission Manager Roy Lester, Mission Scientist Dr. Eugene Urban, and MSFC Spacelab Program Office Manager John Thomas.

A mission overview briefing with Lead 51-F Flight Director John T. Cox will follow at 2:30 p.m. CDT June 23. That briefing will originate from the Johnson Space Center.

On June 24, the seven-member crew of 51-F will participate in a press conference from JSC at 11 a.m. CDT. Crew members will review their roles on the upcoming flight and take questions from the news media.

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NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483 5111

For Release

Steve Nesbitt
Johnson Space Center (713) 483-5111

June 21, 1985

RELEASE NO. 85-029

NASA JSC SHUTTLE OPERATIONS PROCUREMENT NEARING FINAL PHASES

A multi-billion-dollar procurement aimed at combining Space Shuttle operations work at the NASA Johnson Space Center into a single contract reached a major milestone this week with the announcement that all four bidders are within the "competitive range" for the contract.

A firm that is within the "competitive range" is said to have a reasonable chance of being awarded the contract based upon a review of company experience, past performance, technical, management, cost and other factors.

Work now being performed at JSC under 22 contracts held by 16 companies will be combined into a single contract with an estimated value of $5.5 billion over 15 years.

The four bidders are Ford Aerospace and Communications Corporation, Grumman Space Operations Corporation, Lockheed Space Flight Company and Rockwell Shuttle Operations Company.

The objective of the new contract which is scheduled to start January 1, 1986, is to develop a more efficient and cost-effective approach to Shuttle operations as the flight rate increases and operations become more routine.

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Activities such as the maintenance and operation of the Mission Control Center, the Shuttle simulator, the Shuttle Avionics Integration Laboratory and the STS portion of the Central Computing Complex as well as flight planning, crew training, sustaining engineering and direct mission support are among items included in the contract.

Oral discussions with the four companies will be held June 27 and 28. Best and final offers are due July 8. The Source Evaluation Board will present its findings to the NASA administrator in early September. The administrator will make the final selection.

Negotiations with the successful bidder will then begin leading to a two-year contract with an option for a firm price two-year extension. The remaining 11 years of the contract will be nogotiated in the future.

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NASA News

National Aeronautics and
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Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Brian Welch
RELEASE NO. 85-030

For Release
June 10, 1985

FLIGHT CONTROL OF SHUTTLE MISSION 51-F

As with other Spacelab missions, around the clock operations by the flight control and payloads operations teams, as well as by the crew of the Space Shuttle, will characterize the STS 51-F/Spacelab 2 mission.

The lead flight director for 51-F is John T. Cox, who will head the Orbit 2 team. Cleon Lacefield will head the Ascent/Entry team, G.A. Pennington will head the Orbit 1 team and Alan Lee Briscoe will head the Orbit 3 team.

Each team will work an average eight-hour shift with an hour overlap for handover during the seven-day flight. The mission will be controlled from the second floor Flight Control Room (FCR-1) in the Mission Control Center, Houston.

The console call signs and functions are:

Flight Director (Flight) - responsible for conduct of the mission and real time decision making.

Capsule Communicator (CapCom) - maintains voice communications with the crew aboard the Space Shuttle.

-more-

Data Processing Systems Engineer (DPS) - monitors the health of orbiter data processing hardware and loads software into the Shuttle's general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - monitors fuel cell reactants, cooling systems, electrical power generation and distribution, instrumentation, and the spacecraft environmental systems.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - monitors auxilliary power units, hydraulic systems, payload bay doors and vents and the remote manipulator system.

Flight Dynamics Officer (FDO) - monitors powered flight, orbital maneuvers and trajectory and energy management during entry.

Guidance Officer (Guidance) - manages onboard navigation and guidance software.

Flight Surgeon (Surgeon) - monitors flight crew health.

Booster Systems Engineer (Booster) - monitors main engine and solid rocket booster performance during ascent.

Propulsion Systems Engineer (Prop) - monitors orbiter reaction control system and orbital maneuvering system status throughout the flight.

Guidance, Navigation and Control Systems Engineer (GNC) - monitors inertial navigation, radio navigation hardware and digital autopilot systems.

Instrumentation Communications Systems Engineer (INCO) - manages the orbiter communications system.

Operations Integration Officer (OIO) - manages FCR procedures and group displays.

Flight Activities Officer (FAO) - maintains and updates crew timelines and checklists.

Payloads Officer (Payloads) - coordinates payloads activities between the FCR and the Payloads Operations Control Center.

Public Affairs Commentator (PAO) - explains flight events in lay terms for the news media and the general public.

Persons assigned to these FCR console positions for STS 51-F are listed on the following page.

POSITION	ASC/ENT, ORBIT 1	ORBIT 2	ORBIT 3
Flight	Cleon Lacefield (A/E) G.A. Pennington (Orb. 1)	John Cox	Lee Briscoe
CapCom	Richard N. Richards (A/E, Orb. 1) Michael L. Coats (A/E)	David Leestma James Weatherbee	Robert C. Springer
Surgeon	Jeffrey R. Davis	Patricia Santy	
Payloads	Linda Godwin (A/E, Orb. 1)	J.R. Gauthier	W.A. Middleton
FDO	Brian Perry (Asc) Mason Lancaster (Orb. 1) Nick Combs (Ent)	Doug Rask	Phil Burley
Guidance	Ted Dyson (Asc) Ken Patterson (Orb.1, Ent)	Oscar Olsvewski	Ted Dyson
FAO	W.E. Louis	M.S. Rolwes	W.R. Holmberg
DPS	A.F. Algate	T.W. Keeler	M. Darnell
EECOM	R.J. Rector	G.B. Evans	M.D. Louis
GNC	W.L. Shelton (A/E) J.W. Bantle (Orb 1)	C.K. Alford	L.P. Patterson
INCO	R.E. Castle	E.B. Walters	R.W. Rodriguez
PROP	R.D. Jackson	A.J. Ceccacci	L. Schmitt
RMU	D.P. Huntsman	E.J. Ripma	G.H. Ulrich
Booster	J.M. Howard (Asc)		
PAO	Brian Welch (Asc) Steve Nesbitt (Orb. 1, Ent)	Brian Welch	Janet Ross

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-031

For Release
IMMEDIATE

NOTE TO EDITORS: STS 51-I BACKGROUND SET

Background briefings and the astronaut crew press conference for Space Shuttle mission 51-I, scheduled for launch no earlier than August 24, 1985, are scheduled Monday July 22 at the Johnson Space Center in Houston.

A mission overview briefing and Syncom salvage review will begin at 8:15 a.m., CDT, followed by other payload briefings in Room 135, Bldg. 2.

An inspection of EVA equipment is planned at 11 a.m. in Bldg. 29 at JSC.

The astronaut crew will hold a press conference in Room 135 beginning at 12:30 p.m. Mission commander Joe H. Engle, pilot Richard O. Covey, and mission specialists John M. Lounge, James D. van Hoften and William F. Fisher will describe their roles in the eight-day flight which includes the deployment of three communications satellites and the salvage attempt of Syncom IV-3.

# # #

July 18, 1985

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Dave Alter
RELEASE No. 85-032

For Release
IMMEDIATE

NASA NAMES NATIONAL SPACE TRANSPORTATION SYSTEM MANAGER, STREAMLINES SHUTTLE ORGANIZATION, RESPONSIBILITIES.

The National Aeronautics and Space Administration today announced the appointment of Arnold D. Aldrich as Manager of the National Space Transportation System. Aldrich, a 26-year NASA veteran and head of the Space Shuttle Projects Office at the Johnson Space Center, fills the vacancy left when Glynn S. Lunney retired in April.

The Level II NSTS organization at JSC will assimilate the Projects Office to consolidate all program elements under Aldrich's direction. Richard H. Kohrs, who has been acting program manager, and Lt. Col. Thomas W. Redmond, USAF, have been named Deputy Managers.

In a related move, Thomas E. Utsman, head of Shuttle Management and Operations at the Kennedy Space Center, will become Deputy Director of KSC. Shuttle Management and Operations will be divided into two primary organizations: Shuttle Engineering and Shuttle Operations.

July 26, 1985

-more-

The functions of the Engineering Directorate, headed by Horace L. Lamberth, will be expanded to include skills necessary for sustaining engineering of the Orbiter.

The Operations Directorate, headed by Robert B. Sieck, will retain all functions necessary to manage the day-to-day Shuttle processing and its logistical support.

All of the appointments are effective August 12.

Launch Support Services and Orbiter Thermal Protection System manufacturing contracts, functions closely associated with KSC responsibilities for Shuttle maintenance and launch preparation, will be transferred from JSC to KSC later this year. At the beginning of 1986, KSC will also take over logistics responsibility for spare parts refurbishment and procurement and will begin assuming sustaining engineering responsibility for Orbiter subsystems.

The moves are an administrative realignment reflecting the maturation of the Shuttle program. Staffing levels at the two Centers will not be affected by the new organizational structure.

With the combined responsibility, Aldrich takes charge of integration of all Space Shuttle Program elements including flight software, Orbiter, external tank, solid rocket boosters, main engines, payloads, payload carriers and Space Shuttle facilities. Responsibilities also include directing the planning for NSTS operations and for management of Orbiter and Government Furnished Equipment (GFE) projects.

Aldrich's NASA career began with preparations for Project Mercury flight operations. Later he served as a remote site capsule communicator and as spacecraft systems engineer in the Mercury Control Center at Cape Canaveral. Subsequently, he was responsible for operations at key spacecraft systems console positions in the Houston Mission Control Center during the Gemini and Apollo Programs.

Aldrich was chief of the Apollo Systems Branch, Flight Control Division, from 1966 to 1972 when he became deputy manager of the Skylab Program. A year later he was named manager.

He also has served as deputy manager of the Apollo Spacecraft Program Office, manager of the Space Shuttle Program Assessment Office, manager of the Orbiter Avionics Systems Office and deputy manager of the Space Shuttle Program.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release:

Dave Alter
RELEASE NO. 85-033

IMMEDIATE

TWO NORTH DAKOTA MEN WORKING SPACE PROJECTS

Harvey Dean Myers of Cavalier and James F. Buchli, Fargo, might never have met in North Dakota where they were born and reared.

Both envisioned careers in space, opted to serve their country in their own way and, by chance, were assigned to NASA's Johnson Space Center at Houston. It was there that their paths crossed.

Myers serves as verification office manager for this nation's Space Station. It's his job to assure a quality product in orbit.

Buchli, a Marine Corps lieutenant colonel, became a NASA astronaut and hopes to be aboard that Space Station some day. But first, he is scheduled to fly aboard the Space Shuttle Challenger when it launches this November.

Myers and Buchli met recently to discuss hardware design and operation in a full-scale Space Shuttle simulator.

Myers' mother, Mrs. Christine Myers, lives in Cavalier. His brother, Tracy, resides in Fargo.

Myers was graduated from North Dakata State University at Fargo with bachelor and master degrees in electrical engineering. He joined NASA in 1966 as an engineer in guidance and control, became a test director in the Shuttle avionics and integration laboratory and served as manufacturing project engineer for the orbiter Discovery until his recent assignment to the Space Station program.

Buchli, who was born in New Rockford, N.D., considers Fargo where where his parents, Mr. and Mrs. Martin A. Buchli, reside his home.

A graduate of Central High School in Fargo, Buchli received a bachelor of science degree in aeronautical engineering from the U.S. Naval Academy and a master of science degree in aeronautical engineering systems from the University of West Florida.

Buchli was selected as astronaut by NASA in 1978.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt

For Release

RELEASE NO. 85-034

IMMEDIATE

SHUTTLE MISSION 51-I CREW POST FLIGHT PRESS CONFERENCE SET

The five-member astronaut crew of Space Shuttle mission 51-I which ended Tuesday will hold a post-flight press conference Wednesday, Sept. 11 at the Johnson Space Center in Houston.

Mission Commander Joe H. Engle, pilot Richard O. Covey, and mission specialists James D. van Hoften, J. Michael Lounge and William F. Fisher will discuss their recent satellite deployment and salvage mission beginning at 1 p.m. in Room 135 of Building 2.

September 5, 1985

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release:

Steve Nesbitt
RELEASE NO. 85-035

September 19, 1985

NASA NAMES CREWS FOR UPCOMING SPACE SHUTTLE FLIGHTS

The National Aeronautics and Space Administration today announced the astronaut crews for two upcoming Space Shuttle flights and changes or additions to the crews for three other flights.

Veteran astronaut John W. Young will command Shuttle flight 61-J, the deployment of the Hubble Space Telescope scheduled for August, 1986. Charles F. Bolden Jr. has been assigned as pilot on 61-J. Three mission specialists already have been named to that flight. They are Kathryn D. Sullivan, Steven A. Hawley and Bruce McCandless.

The crew for mission 61-K, the rescheduled Earth Observations Mission set for launch in September, 1986, includes Vance D. Brand, commander; S. David Griggs, pilot; and mission specialists Robert C. Stewart, Owen K. Garriott and European Space Agency astronaut Claude Nicollier.

Two payload specialists, Michael Lampton and Byron K. Lichtenberg, already had been named for mission 61-K.

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Shuttle mission 61-I, the retrieval of the Long Duration Exposure Facility and deployment of Intelsat VI-1, will be commanded by Donald E. Williams. Other crew members include pilot Michael J. Smith and mission specialists James P. Bagian, Bonnie J. Dunbar, and Manley L. "Sonny" Carter.

Two changes have been made to crews of other flights. Norman E. Thagard replaces John M. Fabian on mission 61-G, the deployment of the Galileo interplanetary spacecraft scheduled in May, 1986. Fabian will be leaving the agency in the near future. His plans are unannounced.

Thagard was scheduled to fly on mission 61-H, scheduled for launch in June, 1986, and will be replaced by James F. Buchli.

Young will be making his seventh space flight and his third in the shuttle program with 61-J. He was commander of STS-1 in April 1981, the first mission of the shuttle program, and STS-9, the Spacelab 1 mission in 1983.

Bolden will be flying for the second time. He also is scheduled to fly as pilot on mission 61-C in December, 1985.

Brand and Griggs were reassigned from the Spacelab 4 mission, the first dedicated life sciences flight. The launch date for that mission is currently under review. It will be Brand's third Shuttle flight. He also flew on the Apollo-Soyuz mission in 1975 in which Soviet and American spacecraft met in orbit.

--more--

Griggs was a mission specialist on flight 51-D in April, 1985.

Stewart was the second astronaut to fly the Manned Maneuvering Unit on mission 41-B and is scheduled to fly as a mission specialist on flight 51-J, the DOD mission in October. Garriott will be making his third space flight. He was a member of the Skylab 3 and STS-9 crews. Nicollier will be making his first trip into space.

Williams was pilot on flight 51-D. Smith is scheduled to pilot mission 51-L in January, 1986. Bagian and Carter will be making their first shuttle flights. Dunbar is scheduled as a mission specialist on the Spacelab D-1 flight, 61-A, in October.

Thagard and Buchli will each be making a third spaceflight.

# # #

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Dave Alter

RELEASE NO. 85-036

September 26, 1985

NASA SIGNS CONTRACT FOR NEW PHONE SYSTEM AT JSC

The National Aeronautics and Space Administration today purchased a $14.9 million communications system from the ROLM Corporation of Santa Clara, Calif., to replace the 23-year-old telephone network at the Johnson Space Center in Houston.

It will provide more than 10,000 voice and data ports to serve the entire center.

The telephone business communications system includes the newest technology: an extensive cable and fiber optic distribution system, digital phones and other desk top devices, a facilities management system and a second voice and data telecommunications operation for NASA facilities at nearby Ellington Field.

Installation will be phased over 18 months, managed by ROLM's NASA-Johnson Space Center District. Contract extensions

-more-

also provide for maintenance, operation and system expansion during the next ten years.

ROLM Corporation, one of seven proposers, was selected for negotiations in mid January.

Other firms which competed for the contract included AT&T Information Systems; Northern Telecom, Inc.; Bell Atlanticom Systems, Inc.; Southwestern Bell Telecom; Centel Business Systems, and the General Telephone Company of the Southwest.

ROLM is a wholly owned subsidiary of IBM Corporation. It is a leading supplier of digital business communications systems.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE NO. 85-037

For Release
IMMEDIATE

NOTE TO EDITORS: NASA JSC SCHEDULES STS 61-A/SPACELAB D-1 CREW PRESS CONFERENCE, BACKGROUND BRIEFINGS

Background briefings and the final preflight crew press conference for the STS 61-A space shuttle flight are scheduled for October 1 and 2 at the Johnson Space Center press briefing room.

Lead 61-A flight director Larry Bourgeois will top the October 1 briefing agenda at 9:00 am CDT followed by Spacelab D-1 payload experts from Germany's space agency.

The 61-A flight crew---Henry W. Hartsfield, commander; Steven E. Nagel, pilot; James F. Buchli, Guion S. Bluford, and Bonnie Dunbar, mission specialists; and Reinhard Furrer, Ernst Messerschmid and Wubbo Ockels, payload specialists---will hold their press conference at Noon CDT October 2 in JSC Building 2, Room 135.

# # #

September 26, 1985

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Dave Alter
RELEASE No. 85-038

For Release
October 1, 1985

NASA TO PICK ONE TEAM FOR FLIGHT EQUIPMENT WORK

A NASA source selection board is evaluating proposals from three industry teams for a single Flight Equipment Processing Contract (FEPC) to replace tasks currently being done by 15 firms.

The initial three-year contract is to be awarded by the end of October with a two-year priced option extension. Estimated value at the end of 15 years is $300 million, Frederick T. Burns Jr., deputy manager of the Shuttle Flight Equipment Project Office, said.

The award will be the second large consolidation contract let at the Johnson Space Center this year. On September 12, Rockwell International won the Space Transportation System Operations Contract to consolidate JSC Space Shuttle operations.

The FEPC contract is for processing Space Shuttle flight crew equipment, including operation and maintenance of associated ground systems primarily at JSC.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston Texas 77058
AC 713 483-5111

Janet Ross
RELEASE No. 85-039

For Release
October 4, 1985

GERALD GRIFFIN TO SPEAK AT CFC KICK OFF

"Houston's Combined Federal Campaign is number one and we plan to keep it that way," says Gerald D. Griffin, Director of the NASA Johnson Space Center and 1985 Volunteer Chairman of the Combined Federal Campaign (CFC). Griffin will be one of several keynote speakers at the CFC kick off meeting slated for noon, October 11, at Tranquility Park in Houston.

The directors of every major Federal agency in the Houston area will join Griffin and the 1985 CFC Vice Chairman, Douglas Gow, Special-Agent-in-Charge, Federal Bureau of Investigation.

These Federal leaders will issue a number of challenges to one another. The biggest involves the NASA Johnson Space Center, which has long led the way in employee per capita giving, being seriously challenged by Postmaster Sam Green, Jr., and the employees of the U.S. Postal Service.

"NASA and the Postal Service have always had the same credo - 'We deliver'," Green said.

U.S. Postal Service employees have set their goal at $600,000 - a 24 percent increase over 1984.

-more-

Houston's Federal employees are the most generous in the nation. In 1984, the local Federal workforce gave $1 million to help those less fortunate.

Leaders from the following Federal Agencies will participate in the kick off event.

1. NASA Johnson Space Center
2. U.S. Postal Service
3. Federal Bureau of Investigation
4. Social Security Administration
5. Internal Revenue Service
6. Veterans Administration Medical Center
7. Veterans Administration Regional Office
8. U.S. Customs
9. Secret Service
10. Small Business Administration
11. Federal Aviation Administration
12. Housing & Urban Development
13. U.S. Department of Immigration
14. U.S. Army
15. U.S. Coast Guard
16. Food & Drug Administration
17. Equal Employment Opportunity Commission
18. General Services Administration

Houston City Council member Eleanor Tinsley, 1985 United Way Campaign Chairman for government, will also attend.

# # #

NASA News

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE NO. 85-040

For Release
October 7, 1985

NASA SIGNS AGREEMENT WITH SCOTT SCIENCE AND TECHNOLOGY INC.

NASA today announced the signing of an agreement with Scott Science and Technology Inc. (SST), Lancaster, Calif. Under the agreement, NASA will provide technical expertise to SST in the development of a commercial liquid-fuel upper stage for boosting Shuttle-deployed satellites to geosynchronous orbit.

The agreement, signed under NASA's Commercial Use of Space Policy, will run for 21 months.

SST's upper stage, called the Satellite Transfer Vehicle, has been in privately-financed development for 2 years. The stage will have the capacity to boost satellites, ranging from 2,000 to 19,000 pounds, to geosynchronous orbit. In some types of missions, the stage would be recoverable.

Engineers at NASA's Johnson Space Center, Houston, will monitor the stage's development and will consult with the SST staff on technical problems. SST will reimburse NASA for the use of any test facilities, salaries and travel by JSC personnel.

Former astronaut David R. Scott is president of SST.

-end-

The winning contractor will be responsible for: space suit maintenance and testing before and after flights, failure analysis and repair of spaceship galleys, operation of the space food production facility, preparation and delivery of food for each mission, medications and equipment for medical kits, clothing, personal hygiene and flight kits, tools, radio and television support, and all film and cameras.

The three team proposals in the FEPC contest are from Boeing Aerospace Co. and Wornick Corporation; General Electric, Northrop and Integrated Systems Analysts; and Hamilton Standard, ILC and RCA.

The request for proposals (RFP) was released in January. Proposals were received in April and selection is now underway.

Two firms -- Lockheed and Pan Am -- were cut from the list earlier this year.

Now that Shuttle is operational, processing of flight equipment is characterized by repetitive operations performed by an experienced and stable work force. Hardware, software, documentation and processing cycle activities have matured and require minimum changes and unplanned work.

The contract will be cost-plus-award-fee for the first six months and cost-plus-incentive-fee, plus an award fee, for the remainder of the term.

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NASA News

National Aeronautics and
Space Administration

Washington, D.C. 20546
AC 202 755-8370

Billie Deason
RELEASE NO. 85-041

For Release:

IMMEDIATE

NOTE TO EDITORS: PREFLIGHT BRIEFINGS FOR MISSION 61-B SCHEDULED

The crew of Space Shuttle mission 61-B will hold a preflight press conference on Thursday, October 24.

A mission overview briefing, including the mission's planned extravehicular activities, will be presented on Wednesday, October 23.

The press conference and background briefings will be conducted in room 135, Bldg. 2, of the Johnson Space Center.

The mission overview briefing will begin at 8:30 a.m. on Wednesday.

Mission commander Brewster H. Shaw and fellow crewmembers Bryan D. O'Connor, Mary L. Cleave, Sherwood C. Spring, Jerry L. Ross, Rudolfo Neri and Charles Walker will begin the preflight press conference at 8:15 a.m. on Thursday.

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October 17, 1985

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Terry White
RELEASE NO. 85-042

October 28, 1985

MISSION CONTROL NAMES TEAMS FOR FLIGHT 61-A/SPACELAB D-1

Shuttle orbiter Challenger, scheduled for liftoff at 11 am CST October 30 from Kennedy Space Center, will carry in her cargo bay Spacelab D-1 for around-the-clock science operations by the largest crew yet flown on a Shuttle mission.

While most of the science data and voice communications to and from Spacelab will go to the German Space Operations Center at Oberpfaffenhofen near Munich, Challenger's systems health and routine orbiter timelines will be managed by flight controller teams in the Mission Control Center-Houston. Each team will work eight-hour shifts with an hour handover overlap in the second-floor Flight Control Room (FCR).

Larry Bourgeois is 61-A lead and Orbit 1 team flight director; Gary Coen heads the ascent/entry team; G.A. Pennington has Orbit 2 team, and Charles Knarr, Orbit 3.

FCR console positions, their call signs and functions are:

Flight Director (Flight) - conducts mission and makes real-time decisions.

-more-

Spacecraft communicator (CapCom) - talks to flight crew aboard orbiter.

Data Processing Systems Engineer (DPS) - monitors health of orbiter data processing hardware and loads software changes into orbiter general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) - monitors fuel cell reactants, cooling sytems, electrical power generation and distribution, instrumentation, cabin and payload bay lighting.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) - monitors auxilliary power units (APUs), hydraulic systems, payload bay doors and vents, and the remote manipulator system (RMS).

Flight Dynamics Officer (FIDO) - monitors powered flight, orbital maneuvers and trajectory, and entry energy management.

Guidance Officer (Guidance) - manages onboard navigation and guidance system.

Flight Surgeon (Surgeon) - monitors flight crew health.

Booster Systems Engineer (Booster) - monitors main engine and solid rocket booster (SRB) performance during ascent.

Propulsion Systems Engineer (Prop) - monitors orbiter reaction control system (RCS) and orbital maneuvering system (OMS) engines throughout flight.

Guidance, Navigation and Control Systems Engineer (GNC) - monitors inertial and radio navigation hardware, digital autopilot systems.

Integrated Communications Systems Engineer (INCO) - manages

orbiter communications system.

Operations Integration Officer (OIO) - manages FCR procedures and group displays.

Flight Activities Officer (FAO) - maintains and updates crew checklists and timelines.

Payloads Officer (Payloads) - coordinates payloads activities between FCR and Customer Support Room.

Public Affairs Commentator (PAO) - explains flight events in lay terms for news media and general public.

Persons assigned to these FCR positions for flight 61-A are listed on the following page.

Console Position	Asc/Ent Orbit 1	Orbit 2	Orbit 3
Flight	G.E.Coen-A/E L.S.Bourgeois	G.A.Pennington	C.R.Knarr
CapCom	M.L.Coats-A/E F.Gregory-A/E A.W.England-Orb 1 S.W.Lucid-Orb 1	J.D.Wetherbee L.B.Hammond	S.K.Ride C.L.Veach
Surgeon	P.A.Santy-A/E	J.R.Davis, D.F.Stewart (12hr shifts)	
Payloads	G.H.Cress	S.B.Castle	K.V.Cannon
FDO	G.T.Oliver-Asc L.Gonzales-Ent	E.M.Lancaster	P.J.Burley
Guidance	T.E.Dyson-A/E D.P.Kunkel-Orb 1	J.K.Patterson	O.W.Olszewski
FAO	W.E.Louis	N.A.Woodbury	A.F.Ellis
DPS	A.F.Algate	T.W.Keeler	L.A.Cheshire
EECOM	R.J.Rector	G.B.Evans	B.N.Pearson
GNC	J.W.Bantle	C.K.Alford	R.Yackovetsky
INCO	R.E.Castle	E.B.Walters	H.Black
PROP	R.D.Jackson	A.J.Ceccacci	R.D.Dittemore
RMU	D.P.Huntsman	K.A.Reiley	R.E.Anders
Booster	J.M.Howard	--	--
PAO	L.J.Lawrence-Asc J.K.Ross-Orb 1 R.T.White-Ent	R.T.White	L.J.Lawrence

# # #

NASA-JSC

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE NO. 85-043

For Release
October 29, 1985, 2 pm CST

NASA PICKS IBM TO FURNISH MISSION CONTROL COMPUTERS

The NASA Johnson Space Center has selected IBM Corporation Federal Systems Division, Houston, Texas for negotiations leading to award of a contract covering replacement of computers in Mission Control Center-Houston.

Under the proposed contract, IBM will provide and install upgraded computer systems in the Control Center and will provide operating system software, and hardware/software integration and maintenance services. The contract will provide additional annual extension options for periodic upgrading and maintenance.

The fixed-price contract for a five-year period is expected to cost $6.6 million.

Other bidders for the system were Amdahl Corporation and ViON Corporation, both of Washington, D.C.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Dave Alter
RELEASE NO. 84-044

IMMEDIATE

NASA AWARDS MARTIN MARIETTA PIC CONTRACT

The National Aeronautics and Space Administration today announced it has awarded the Martin Marietta Corporation a $4.9 million contract to manufacture pyrotechnic initiator controllers (PIC) for Space Shuttle Operations.

The PIC is a common item used by Shuttle Orbiters and on solid rocket boosters, external tanks, mobile launch platforms and payloads. The PICs are used in Shuttle events control subsystems of the electrical power distribution and control system to fire NASA standard initiators. The contract calls for delivery of 800 PIC's through January 1988.

The work will be done at Martin Marietta's Aerospace plant at Denver, Colo., for the Johnson and Kennedy Space Centers, Lewis Research Center and the Marshall Space Flight Center.

In addition to Martin Marietta, a proposal also was received from Eldec Corporation, Lynnwood, Wash.

# # #

October 30, 1985

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE No.85-045

For Release
November 18, 1985

ROCKWELL PICKED TO BUILD SPACE STATION THERMAL TEST BED

The NASA Johnson Space Center, Houston has selected Rockwell International Corporation, Houston for negotiations leading to award of a contract for designing a Space Station thermal test bed.

The cost-plus-fixed-fee contract will cover design and test sequence studies of NASA-built test bed components for determining space environment thermal loads on Space Station habitation modules and structure. Space Station is projected to be operational by 1992.

The contract will run from January 1, 1986 through December 30, 1990 and will be valued at approximately $6.1 million. Rockwell will perform the work at JSC and at company facilities nearby.

The Boeing Company and Lockheed Corporation, both of Houston, also submitted proposals for the test bed contract.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Barbara Schwartz
RELEASE NO. 85-046

For Release
IMMEDIATE

NOTE TO EDITORS: STS 61-C PREFLIGHT BRIEFINGS

Background briefings and the astronaut crew press conference for Space Shuttle mission 61-C to be launched December 18, 1985 are scheduled Thursday, November 21 at Johnson Space Center, Bldg. 2, Room 135.

A mission overview briefing by Lead Flight Director Jay Greene will begin at 8:15 a.m. CST, followed by three students who have experiments on 61-C as part of the Shuttle Student Involvement Program (SSIP).

The astronaut crew press conference will be at noon with round-robin interviews to follow. The 61-C crew members are commander Robert L. Gibson (Cdr., USN); pilot Charles F. Bolden, Jr. (Lt. Col., USMC); mission specialists Franklin Chang-Diaz (Ph.D., Plasma Physics), Steven A. Hawley (Ph.D., Astrophysics), and George D. Nelson (Ph.D., Astronomy); payload specialist Robert Cenker (RCA); and Congressional observer Rep. William "Bill" Nelson, Florida.

November 18, 1985

# # #

Dave Alter
RELEASE NO. 85-047

November 22, 1985

NASA ANNOUNCES AGREEMENT TO REDESIGN PLSS HARDWARE

A $5.4 million supplemental agreement to redesign the space suit portable life-support subsystem's fan pump separator and motor has been signed by NASA with the Hamilton Standard Division of United Technologies Corporation.

The portable life support subsystem (PLSS) provides constantly refreshed air and suit pressure to the crew member. The redesign will improve the portable life support system with hermetically-sealed sensors and improved electronics in the motor driving the space suit ventilating fan, cooling water pump and condensed water separator.

The PLSS is part of the Extravehicular Mobility Unit (EMU) which includes the space suit.

Total value of the contract for EMUs for the Space Shuttle Program is estimated at $300,612,826. Amount of the supplemental agreement is $5,491,576.

In addition to providing refreshed atmosphere for the wearer, the EMU removes metabolically produced heat through the liquid-cooling and ventilation garment. It also furnishes communications, light-emitting diode displays and a caution-and-warning system for failures or abnormal conditions.

The PLSS is worn on back of the space suit's hard upper torso.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Janet Ross
RELEASE NO. 85-048

December 4, 1985

NOTE TO EDITORS: STS 51-L PREFLIGHT BRIEFINGS

Background briefings and the crew press conference for Space Shuttle mission 51-L to be launched January 22, 1986 are slated for Thursday, December 12 and Friday, December 13, respectively. All briefings will be held at the Johnson Space Center, building 2, room 135.

A mission overview briefing by Lead Flight Director Randy Stone will begin at 9 a.m., CST, followed by Barbara Morgan, the backup teacher observer who will discuss teacher activities and objectives; briefings on astronaut/payload specialist training; SPARTAN/Halley; and a briefing on the Tracking and Data Relay Satellite-B (TDRS-B). There will also be a briefing given by three students and their sponsors who have experiments on 51-L as part of the Shuttle Student Involvement Program (SSIP).

The astronaut crew press conference is scheduled for 9 a.m. CST, Friday. The 51-L crew members are commander Francis R. Scobee, (USAF, Ret.); pilot Michael J. Smith, (Commander, USN); mission specialists Judith A. Resnik, (Ph.D., Electrical Engineering); Ellison S. Onizuka, (Lt. Col., USAF); Ronald E. McNair, (Ph. D., Physics); Gregory B. Jarvis, payload specialist with Hughes Corporation; and S. Christa McAuliffe, teacher observer.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

John Lawrence
RELEASE NO. 85-049

December 4, 1985

ER-2 OPERATES FROM ELLINGTON

A NASA ER-2 high-altitude research aircraft arrives at Ellington Field today to begin a three-week series of flights over Texas and Louisiana.

The aircraft is based at NASA's Ames Research Center, Moffett Field, CA, where it performs atmospheric research missions. The ER-2 is similar to a U-2 surveillance aircraft but is distinguished by a longer wingspan. The flights originating at Ellington are to perform photographic surveys for the Army Corps of Engineers, the Fish and Wildlife Service, and the U.S. Forest Service.

Areas to be surveyed will include wetland areas of Louisiana and regions of Texas suspected of Pine Beetle infestation.

The operation is scheduled to conclude Dec. 22.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

For Release

Billie Deason
RELEASE NO. 85-050

December 6, 1985

61-B CREW SCHEDULES POSTFLIGHT PRESS CONFERENCE

The crew of Space Shuttle mission 61-B will hold a postflight press conference on Tuesday, December 10, 1985, at 1 p.m. The briefing originates from Bldg. 2, Rm. 135 of the Johnson Space Center.

Mission commander Brewster H. Shaw, pilot Bryan D. O'Connor, mission specialists Mary L. Cleave, Sherwood C. Spring and Jerry L. Ross with payload specialists Charles D. Walker and Rodolfo Neri will present highlights from their recently completed flight.

# # #

NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Terry White
RELEASE NO. 85-051

For Release
December 5, 1985

NASA SIGNS SHUTTLE OPERATIONS CONTRACT WITH ROCKWELL

The NASA Johnson Space Center, Houston today signed a cost-plus-incentive/award-fee contract with Rockwell Shuttle Operations Company of Houston for Space Transportation System Operations (STSOC).

Rockwell was selected for negotiations September 12, 1985 from among four aerospace industrial teams competing for the contract. Starting January 1, 1986, the first two years of the contract are estimated to be valued at $378,536,000. The follow-on two-year extension option from January 1, 1988 through December 31, 1989 is valued at approximately $374,320,000 for a four-year total of $752,846,000.

Rockwell's STSOC tasks will include project management, maintenance and operations of Mission Control Center-Houston, Shuttle Mission Simulator, Shuttle Avionics Integration Laboratory, Software Production Facility and the Central

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Computing Facility; sustaining engineering, flight preparation requirements and analysis, flight preparation production, and direct mission operations, testing and support for Space Shuttle operations at Johnson Space Center.

The Rockwell team includes Bendix Field Engineering Corp., Columbia, MD; System Development Corp., Camarillo, CA; Omniplan Corp., Santa Monica, CA; RMS Technologies, Inc., Landover, MD; and System Management American Corp., Norfolk, VA.

Other bidder teams were led by Ford Aerospace and Communications Corp., Grumman Space Operation Corp., and Lockheed Space Flight Company---all of Houston, TX.

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston Texas 77058
AC 713 483-5111

For Release

Janet Ross
RELEASE NO. 85-052

December 13, 1985

FLIGHT CONTROL OF SHUTTLE MISSION 61-C

Orbiter Columbia, scheduled to liftoff at 6:00 a.m. CST from the Kennedy Space Center, will carry in her cargo bay the SATCOM KU-1 with a PAM-D II (Payload Assist Module) for deploy on orbit seven. Resting upon the MPESS (Mission Peculiar Equipment Support Structure) also located in the cargo bay, will be the MSL-2 (Materials Science Laboratory), a highly self-contained facility which will provide accommodations for three experiments in the materials processing field.

Other activities during the mission include: IR-IE (infrared imaging experiment); CHAMP (Comet Halley Active Monitoring Program); HHG-1 (Hitchhiker G-1); HPCG (hand-held protein crystal growth) experiment; IBSE (initial blood stowage experiment); three shuttle student involvement experiments; and thirteen Getaway Special experiments.

Columbia is scheduled to land at the Kennedy Space Center on December 23, at 6:00 a.m. CST.

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Jay H. Greene is the 61-C lead and orbit 1 flight director; Gary E. Coen heads the ascent/entry team; Milton J. Heflin has the Orbit 2 team, and Granvil A. (Al) Pennington, Planning team.

Flight Control Room console positions, their call signs and functions, and persons assigned to these positions are:

61-C FLIGHT CONTROL ROOM POSITIONS

Flight Director (FLIGHT) -- responsible for conduct of the mission and real-time decision making.

Capsule Communicator (CAPCOM) -- maintains voice communications with the crew aboard the space shuttle.

Data Processing Systems Engineer (DPS) -- monitors the health of orbiter data processing hardware and loads software into the shuttle's general purpose computers.

Electrical, Environmental, Consumables and Mechanical Systems Engineer (EECOM) -- monitors fuel cell reactants, cooling systems, electrical power generation and distribution, instrumentation, and the spacecraft environmental systems.

Remote Manipulator System, Mechanical and Upper Stage Systems Officer (RMU) -- monitors auxilliary power units, hydraulic systems, payload bay doors and vents and the remote manipulator system.

Flight Dynamics Officer (FIDO) -- monitors powered flight, orbital maneuvers and trajectory and energy management during entry.

Guidance Officer (GUIDANCE) -- manages onboard navigation and guidance software.

Flight Surgeon (SURGEON) -- monitors flight crew health.

Booster Systems Engineer (BOOSTER) -- monitors main engine and solid rocket booster performance during ascent.

Propulsion Systems Engineer (PROP) -- monitors orbiter reaction control system and orbital maneuvering system status throughout the flight.

Guidance, Navigation and Control Systems Engineer (GNC) -- monitors inertial navigation, radio navigation hardware and digital autopilot systems.

Instrumentation Communications Systems Engineer (INCO) -- manages the orbiter communications system.

Flight Activities Officer (FAO) -- maintains and updates crew timelines and checklists.

Payloads Officer (PAYLOADS) -- coordinates payloads activities between the FCR and the Payloads Operations Control Center.

Ground Control (GC) -- monitors status of Space Tracking and Data Network and responsible for Mission Control support equipment.

Public Affairs Commentator (PAO) -- explains flight events in lay terms for the news media and the general public.

FLIGHT CONTROL TEAM FOR MISSION 61-C

FLIGHT DIRECTOR

A/E (Ascent/Entry):	Gary E. Coen
Orbit 1:	Jay H. Greene
Orbit 2:	Milton J. Heflin
Planning:	Granvil A. Pennington

CAPCOM

A/E:	Fred Gregory
Weather:	Dick Covey
Orbit 1:	Shannon Lucid
Orbit 2:	James Wetherbee
Planning:	Loyd B. (Blan) Hammond
	Charles L. (Lacy) Veach

SURGEON

Crew Surgeon:	Dr. Jeff Davis
Deputy Crew Surgeon:	Dr. Pat Santy

GC

A/E:	D. Snyder/J. Wells
Orbit 1:	J. Conditt
Orbit 2:	W. Murray

PAYLOADS

A/E & Orbit 1:	Michael K. Fawcett
Orbit 2:	C. Mike Foale
Planning:	W. Michael Hawes

FIDO/TRAJECTORY

Ascent:	E. Gonzalez/B. Perry
Entry:	G. Oliver/M. Sims
Orbit 1:	E. Gonzales/R. Sanchez
Orbit 2:	P. Burley/C. Soileau
Planning:	B. Hilty/W. Jones

GUIDANCE

A/E:	J. K. Patterson
Orbit 1 & 2 (on call)	Patterson/Kunkel
Planning:	D. Kunkel

GNC

A/E & Orbit 1:	R. E. Yackovetsky
Orbit 2:	L. P. Patterson
Planning:	S. J. Elsner

FAO

A/E & Orbit 1:	K. M. Alig
Orbit 2:	P. L. Engelauf
Planning:	R. N. Jurmain

DPS

A/E & Orbit 1:	L. A. Cheshire
Orbit 2:	M. Darnell
Planning:	G. W. Knori

EECOM

A/E & Orbit 1:	B. N. Pearson
Orbit 2:	D. G. Herbek/J. S. McLendon
Planning:	J. A. Carretto

INCO

A/E & Orbit 1:	H. Black
Orbit 2:	R. W. Rodriguez
Planning:	J. E. Conner

PROP

A/E & Orbit 1:	A. J. Ceccacci
Orbit 2:	L. J. Schmitt
Planning:	L. J. Hautzinger

RMU

A/E & Orbit 1:	R. E. Anders
Orbit 2:	G. H. Ulrich
Planning:	R. L. Lofton

BOOSTER

A/E & Orbit 1:	J. L. Borrer

PAO

A/E & Orbit 1:	L. John Lawrence
Orbit 2:	Janet K. Ross
Planning:	Brian W. Welch

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NASA News

National Aeronautics and
Space Administration
Lyndon B. Johnson Space Center
Houston, Texas 77058
AC 713 483-5111

Steve Nesbitt
RELEASE NO. 85-053

For Release
IMMEDIATE

NASA NAMES ASTRONAUT CREW FOR DEPARTMENT OF DEFENSE MISSION

The National Aeronautics and Space Administration today announced the flight crew for a dedicated Department of Defense mission scheduled for September.

Mission 61-N, set for launch no earlier than September 4, 1986, will be commanded by Lt. Col. Brewster H. Shaw, Jr. It will be Shaw's third shuttle mission. He served as pilot on STS-9, the first Spacelab mission, and as commander of flight 61-B which launched November 26.

Pilot on 61-N will be Cdr. Michael J. McCulley. Mission specialists named are Cdr. David C. Leestma, Maj. James C. Adamson, and Maj. Mark N. Brown. A DOD payload specialist will be announced later.

Leestma will be making his third space flight. He was a mission specialist on 41-G in October, 1984, and is scheduled to fly on 61-E, the ASTRO-1 flight, in March, 1986.

December 17, 1985

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It will be the first flight for McCulley, Adamson and Brown. All are members of the 1984 astronaut class.

All of the crew members are military officers. Shaw and Brown are in the Air Force. McCulley and Leestma are Navy officers and Adamson is an Army officer.

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