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KEY MSFC PERSONNEL
for

POTENTIAL INTERVIEW EFFORTS

(BIOGRAPHICAL DATA)

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69

Date ----- Doc. No. -----

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

14. 4

Telephone: A/C 205 453-0040

CURRENT: 3/69

JOHN O. ABERG

John O. Aberg is Chief, Vehicle Systems Division at NASA's George C. Marshall Space Flight Center near Huntsville, Alabama.

Born in Brooklyn, N. Y., on July 9, 1927, Aberg was reared and educated in Europe. He is a graduate of Realskolan (high school) in Ljungby, Sweden, and earned his Bachelor of Science degree in mechanical engineering in 1948 at Hogre Tekniska Laroverket in Lulea, Sweden.

Upon securing his degree, Aberg joined the Vibro Plus Products Company staff in Sweden. Two years later he transferred to that company's staff in the United States. In 1950 he was drafted into the U. S. Army and served until 1952.

Aberg became a project engineer with Reynolds Metals Company in 1952 in Sheffield, Alabama. Here he met and married Miss Gloria Dawn Scates, daughter of Mr. and Mrs. Paul Scates. In June 1955, he became a member of the Army Ballistic Missile Agency staff at Redstone Arsenal. Four years later he accepted a position with the United Aircraft Corporation in East Hartford, Connecticut. He returned to the ABMA staff in July 1960 then transferred to MSFC in October 1961 and became the S-II stage project engineer for the Propulsion and Vehicle Engineering Laboratory. In 1964

MORE

he was appointed chief of this laboratory's Vehicle Systems Division, responsible for Systems Engineering and complete engineering documentation with a total division manpower strength of 165 civil service personnel (110 of whom are engineers) and some 300 mission support contractor personnel.

Aberg is a member of the American Institute of Aeronautics and Astronautics. He currently serves as the Alabama Section Awards Committee chairman. In 1965 Aberg was invited by the Swedish Interplanetary Society to lecture in Swedish and English at the Royal Technical University, Stockholm, Sweden, for which he was awarded a life membership in the Society.

Other education and training includes graduate studies at the University of Alabama, Huntsville (1952); business administration at Larimore Business College, Florence, Alabama (1954); and several Government-sponsored management programs and seminars (1957, 1960, 1961, 1963, 1964, 1966, and 1967).

Aberg has served on several panels, task teams, and working groups as chairman, member, and/or secretary. He currently is the chairman of the AAP Systems Safety Panel and is a member of the MSFC Speakers' Panel. He has had published the following reports and papers: (1) #DSP-TN-6-59, "Separation Devices," ABMA, 1959; (2) #1097-60, "Criteria for Meteorite Protection," ARS, 1960; (3) "Advanced Design Considerations of Multi-Stage Ballistic Rockets," Watertown Arsenal, 1961; and (4) "Statement of Intelligence Interest," ABMA, 1961.

Aberg is the son of Mr. and Mrs. John Axel George Aberg of Blasiage, S-38060 Farjestaden, Sweden. Mr. and Mrs. Aberg have three children: Anna Dawn; Melissa Gail; and Amy Leigh.

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PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040 or 453-0043 CURRENT: June 1969

CHRISTIAN E. ANDRESSEN, JR.

Christian E. Andressen, Jr. is chief of the Planning and Resources Office, Program Management, at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Born in Auburn, California, on May 8, 1919, Andressen is a graduate of Lincoln Union High School and the University of California. He holds an AB degree in physics. Post graduate study in electrical engineering and business administration has been done at Princeton University, Massachusetts Institute of Technology, and the University of California extension division.

An administrator with both a technical and business education, Andressen has served in many capacities several of which were held concurrently in companies where he was co-founder.

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While attending the University of California, Andressen began his management career. He accepted a position with Kaiser Shipyards, Richmond, California, as a management trainee. He graduated from the University of California in 1942 and remained with the organization. By 1944, when he became a member of the U. S. Navy, Andressen had been made an administrative assistant in the organization.

Andressen returned to civilian status and his career in 1947. He accepted a position with Lawrence Radiation Laboratory at the University of California in Berkley as budget officer. A year later he transferred to the organization's Livermore, California, site where he was the assistant business manager.

Andressen left the Lawrence Research Laboratory in 1961 to become co-founder, director, vice-president, business manager and treasurer for William M. Brobeck and Associates in Oakland, California. In 1962 he became director, vice-president and the treasurer of the E-H Research Laboratories in Oakland, California. E-H Research Laboratories was an associated company of William M. Brobeck and Associates.

Andressen became deputy director of the Marshall Space Flight Center's Executive Staff in February 1962. In May 1965 he was selected as a member of the special task force for activation of the Center's Mississippi Test Facility. Andressen returned to Alabama and Marshall Center in October 1965 to accept his present position.

The son of Mr. and Mrs. Christian E. Andressen, Sr. of Sheridan, California, he is married to the former Miss Margaret Eisenbarth of Pittsburgh, Pennsylvania. The couple has no children.

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18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
July 9, 1943 April 11, 1951	February 16, 1946 April 10, 1953	Army Combat Engineers U. S. Air Force
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
1st Lieutenant	U. S. Air Force, Retired	Major
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU. Vicksburg Evening Post - Vicksburg, Mississippi Picayune Item - Picayune, Mississippi		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

None.

Henry B. Anderson, EM-1E

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: June 1966

JACKSON M. BALCH

Jackson M. Balch is Manager, Mississippi Test Facility. He was, until May 1965, Marshall Center's Assistant Deputy Director, Technical. Mississippi Test Facility is an element of NASA Marshall's Industrial Operations.

Born in Yarmouth, N. S., Canada, on March 10, 1916, Balch's high school diploma was earned at the American School, Monterrey, N. L. Mexico. He attended Trinity College, Dublin, Ireland, gaining his Bachelor of Engineering degree in civil engineering. He holds a Master of Arts degree in Economics from the University of North Carolina. In addition, he pursued graduate studies in Industrial Engineering at the Massachusetts Institute of Technology.

Balch joined the research and development team here in July 1962. Prior to transfer to the Marshall Space Flight Center, he was Deputy Chief of the Research Projects Office at the Army Ordnance Missile Command, Redstone Arsenal. At Marshall Center, he was Assistant to the Director, Test Division, prior to becoming the Center's Assistant Deputy Director, Technical.

As a colonel in the Alabama National Guard, Balch is Commanding Officer, 142nd Signal Group. He is a member of the Armed Forces Communications and Electronics Association; Board Member, Huntsville-Madison County Civil Defense Authority; and Director, Tennessee Valley Chapter, Association of the U. S. Army.

Balch is married and the couple has six children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

CURRENT: September 1967

Telephone: A/C 205, 876-6074 or 876-6988

LELAND F. BELEW

Leland F. Belew is Manager of the Saturn/Apollo Applications Program Office of Industrial Operations. Industrial Operations is an element of NASA's George C. Marshall Space Flight Center at Huntsville, Alabama. Belew was previously manager of Industrial Operations' Engine Program Office.

Born on February 25, 1925, in Salem, Missouri, Belew attended Salem High School, graduating in 1943.

Military service came next and Belew served in the Army from 1943 to 1946. After separation from active duty, he entered the Missouri School of Mines and Metallurgy, University of Missouri, and received a Bachelor of Science degree in 1950.

Belew worked with the Department of the Interior and the Tennessee Valley Authority before joining the Research and Development team in Huntsville in May 1951 as a design engineer.

In July 1956 he became Chief of the Liaison Office at Canoga Park, California, where projects were being carried out in Guided Missile Design.

April 1958 saw Belew assume the duties of Supervising Aero Rocket Power Plant Research Engineer, ABMA, Redstone Arsenal, Huntsville, Alabama.

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Upon the creation of the Marshall Space Flight Center in July 1960, he gained the position of Aerospace Technologist, Propulsion System Project Management. Belew remained in this post until October 1963 when he was named Manager of the Engine Program Office, Industrial Operations.

He is the author of an American Rocket Society publication, "The Saturn Astronautics," and has written several reports and notes in the field of liquid propulsion, most of which are classified.

Belew is a senior member of the American Institute of Aeronautics and Astronautics and of the American Society of Mechanical Engineers.

He is married to the former Jerena Scheidemantel and they have two children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: 4/69

LUCIAN B. BELL

Lucian B. Bell is the Chief, Saturn Systems Engineering Management Office, at the Marshall Space Flight Center near Huntsville, Alabama.

Established in 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Mr. Bell was employed at Cape Kennedy, Florida, from 1950 to 1952 where he did antenna survey work in the British West Indies for the first down-range communications system utilized in the first missile launches from Cape Kennedy.

A graduate of the University of Alabama, Mr. Bell has taken graduate study at the University of Florida and the University of Alabama toward a master's degree in engineering.

Prior to becoming a member of the research and development team in Huntsville in 1955, Mr. Bell was a project engineer on aircraft bombing and navigation systems with the Air Force Armament Center, Eglin Air Force Base, Florida.

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BELL, Lucian B.

2

Mr. Bell, a native of Louisville, Kentucky, is married to the former Miss Bette Hood of Birmingham, Alabama. The couple has two children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: August 1968

JAMES B. BRAMLET

James B. Bramlet is the Deputy Manager of the Saturn V Program Office at the NASA-Marshall Space Flight Center near Huntsville, Alabama.

The Marshall Center is a field center of the National Aeronautics and Space Administration. As such, the center provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

He became associated with the von Braun research and development team in December 1946 when that group was stationed at the Army's White Sands Proving Ground, New Mexico. His work there was in the field of development of long range optical instrumentation systems sponsored by the Ballistic Research Laboratory.

In early 1950 Bramlet joined the Army Guided Missile Development Group at Ft. Bliss, Texas, and moved to Huntsville in August 1950 as a part of that organization. Bramlet was then a design engineer for combustion chamber development of Mach 3.3-two dimensional winged ram jet upper stage vehicle.

In 1953 Bramlet was appointed technical liaison representative to North American Aviation, Inc., for the development of the Redstone engine and, later, he became chief of the power plant technical liaison group for the development of the Redstone and Jupiter engines.

In June 1958 Bramlet was named Chief, Design Coordination, for the Pershing weapon system and, in July 1960 he transferred with the von Braun group to the National Aeronautics and Space Administration. This group, then part of the Army Ballistic Missile Agency, became the nucleus for NASA's George C. Marshall Space Flight Center. Bramlet was assigned as the S-IV Stage Manager until October 1961 at which time he was appointed Saturn V Project Manager. In October 1963 he was appointed at his present position.

Bramlet was born in Harrisburg, Illinois, on March 9, 1921, and is a graduate of the University of Illinois, Urbana, where he earned his Bachelor of Science degree in engineering. The research field in which he specializes is liquid propulsion systems.

Bramlet is a member of the American Institute of Aeronautics and Astronautics. He is married and the couple has three children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040, 453-0042 or 453-0043

CURRENT: 3/69

WILLIAM D. BROWN

William D. Brown is Manager of the Engine Program Office at the George C. Marshall Space Flight Center near Huntsville, Alabama. Specifically, his Office is an element of the Center's Program Management.

Established in 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

A native of Alabama, Mr. Brown was born in Huntsville on December 17, 1926. He is a graduate of Joe Bradley High School in Huntsville and attended Athens College and Alabama Polytechnic Institute (now Auburn University) to earn a Bachelor of Science degree in chemical engineering. Mr. Brown, who is a member of the American Institute of Aeronautics and Astronautics (AIAA), was awarded NASA's Exceptional Service Medal in January 1969 for his contribution to the Apollo 8 mission.

Following graduation from Auburn in 1951, Mr. Brown returned to Huntsville to accept a position with the research and development team at Redstone Arsenal, where he was involved in catalyst development for the Redstone missile. Two years later he became technical field representative for Dornier Aircraft in

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Huntsville. From March 1954 to June 1956, Mr. Brown was an associate engineer with Thiokol Chemical Corporation in Huntsville.

Shortly after the Army Ballistic Missile Agency was activated at Redstone Arsenal, Mr. Brown became a rocket power plant engineer with that Agency. He transferred to the Marshall Space Flight Center when this organization was established on July 1, 1960.

The son of Mrs. Clarence M. Brown, Huntsville, he is married to the former Miss Doris Holmes, daughter of Mr. and Mrs. Clarence H. Holmes, Huntsville, and the couple has four children.

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2. NAME & HOME ADDRESS: George C. Bucher
Route 1, Box 454
Grant, Alabama 35747

3. PLACE AND DATE OF BIRTH: St. Louis, Missouri
December 15, 1925

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): Deputy Associate Director for Science, NASA,
MSFC, Bldg. 4481, 453-3030

5. DATE BEGAN WORK AT MSFC: April 1956 (ABMA)

6. PARENTS:

A. MOTHER LIVING FATHER LIVING

B. NAME OF PARENTS: George H. Bucher
Leonora F. Bucher

C. ADDRESS OF PARENTS: 50 N. Marguerite Avenue
Ferguson, Missouri 63135

7. A. MARITAL STATUS: SINGLE MARRIED

B. WIFE'S MAIDEN NAME: Dolores C. Belew

C. NAME AND ADDRESS OF WIFE'S PARENTS: Mrs. William M. Belew
Route 1, Grant, Alabama

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
Kathleen - 14 Yrs. Karen - 6 Yrs.
Elizabeth - 8 Yrs.

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Ferguson Senior High	Ferguson, Missouri	1943

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Washington University St. Louis, Missouri	1946-50	1950	B. S.	Mech. Engr.

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
U. of Alabama, Tuscaloosa, Ala.	1956-58	1960	M. S. Engr.
Oklahoma State University, Stillwater, Okla.	1963-65	1966	Ph. D. Ind. Engr.

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS: See Item 20 & Mgt.

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports):
Teach university graduate courses in management. Hiking, water sports, horses.

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order) FIRM	LOCATION	DATES FROM . TO	POSITION(S) HELD
See Sheet Attached			

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
Research Management
Space power supplies and heat rejection.

16. TECHNICAL PAPERS (name of publication and title):
See Attached "Publications" List.

17. PATENTS (name and date):
None

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
February 1944	May 1946	Navy
D. RANK OR GRADE UPON SEPARATION: J eman	E. RESERVE STATUS (Component): None	F. RANK OR GRADE IN RESERVE: N/A

19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.

Advertiser-Gleam (Newspaper), Guntersville, Alabama
 Alumni Office, Washington University, St. Louis, Missouri
 Alumni Office, University of Alabama, Tuscaloosa, Alabama
 Alumni Office, Oklahoma State University, Stillwater, Oklahoma

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Item 12

Assistant Professor (part-time), University of Alabama in Huntsville, Alabama

Professional Engineering License, State of Missouri

Member, National Society of Professional Engineers

Member, American Institute of Aeronautics and Astronautics

Senior Member, American Institute of Industrial Engineers

Member, Rocket City Astronomical Association

Member, Sigma Tau Engineering Honor Fraternity

Member, Pi Tau Sigma Mechanical Engineering Honor Fraternity

Member, Alpha Pi Mu Industrial Engineering Honor Fraternity

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Marshall Space Flight Center	Huntsville, Ala.	4-67 - 12-68	Assistant Director, Space Sciences Laboratory
Marshall Space Flight Center	Huntsville, Ala.	7-60 - 4-67	Scientific & Technical Assistant to Director, Research Projects Lab.
Army Ballistic Missile Agency	Huntsville, Ala.	5-56 - 7-60	Scientific & Technical Assistant to Director and Section Chief, Research Projects Lab.
St. Louis Engineering District	St. Louis, Mo.	3-52 - 5-56	Engineer in Charge
Line Co.	Houston, Texas	1-51 - 3-53	

1. Co-author (E. Stuhlinger, A. Weber, C. Lundquist, G. Bucher, R. Shelton, R. Naumann, A. Thompson), The ARGUS Experiment Satellite Measurements, Report No. WT 1668, Army Ballistic Missile Agency, Huntsville, Alabama, June 1959.
2. Electric Propulsion Systems for Satellite Orbit Correction, Report DV-TN-24-59, Army Ballistic Missile Agency, Huntsville, Alabama, August 1959.
3. Editor, Lunar Exploration with Saturn-Boosted Systems, Report DV-TR-3-59, Army Ballistic Missile Agency, Huntsville, Alabama, October 1959.
4. Editor, A Lunar Exploration Program Based Upon Saturn-Boosted Systems, Report DV-TR-2-60, Army Ballistic Missile Agency, Huntsville, Alabama, February 1960.
5. A Preliminary Design for a Heat Rejection System in a Space Vehicle, Thesis, University of Alabama, Tuscaloosa, Alabama, May 1960. Director - Professor H. Kuenzel.
6. An Analysis of the Thermodynamic Cycle and Possible Working Fluids for a Space Heat Rejection System, Report MNN-M-RP-5-60, George C. Marshall Space Flight Center, Huntsville, Alabama, August 1960.
7. Co-editor (E. Stuhlinger, F. I. Ordway, III, J. C. McCall, G. C. Bucher), From Peenemunde to Outer Space, Commemorating the 50th birthday of Wernher von Braun, George C. Marshall Space Flight Center, Huntsville, Alabama, March 23, 1962.
8. Co-editor (E. Stuhlinger, F. I. Ordway, III, J. C. McCall, G. C. Bucher), Astronautical Engineering and Science, Commemorating the 50th birthday of Wernher von Braun, McGraw-Hill Book Company, Inc., New York, New York, 1963.
9. Co-author (E. Stuhlinger, G. Heller, R. Seitz, G. Bucher) "Electric Propulsion - a New Technology," a chapter in From Peenemunde to Outer Space and Astronautical Engineering and Science (See 7 and 8).
10. Co-author (G. C. Bucher, A. H. Weber), A Possible Program for Unmanned Lunar Technological and Scientific Missions Using Saturn Launch Vehicles, Report MTP-RP-62-10, George C. Marshall Space Flight Center, Huntsville, Alabama, December 5, 1962.
11. Co-author (G. Bucher, J. Downey, H. Gierow), Lunar Logistic System - Payloads, Volume X, Report MTP-M-63-1, George C. Marshall Space Flight Center, Huntsville, Alabama, March 15, 1963.

12. Co-author (A. H. Weber, G. C. Finney), Scientific Packages for Apollo Logistic Support Vehicle Payloads, Report MTP-RP-63-7, George C. Marshall Space Flight Center, Huntsville, Alabama, September 1963.
13. "The Grapevine," an article in The Oklahoma State Engineer, December 1964, Oklahoma State University, Stillwater, Oklahoma.
14. "Space Power Supplies and Heat Rejection," a chapter in Space Science and Engineering, McGraw-Hill Book Company, Inc., New York, New York 1965
15. Co-editor (G. C. Bucher, H. E. Stern), Physics of the Moon, NASA Technical Note TN D-2944, National Aeronautics and Space Administration, Washington, D. C., November 1965.
16. A Survey of Research Documentation Systems in Selected Government Agencies, Thesis, Oklahoma State University, Stillwater, Oklahoma, July 1966, Director - Dr. P. Torgersen.
17. Editor, Scientific Results of Project Pegasus, Interim Report, Report NASA TM X-53629, George C. Marshall Space Flight Center, Huntsville, Alabama, July 3, 1967.

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

1. DATE:

April 2, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS:

Orland G. Buckner, 5816 Jones Valley, Dr. SE
 Huntsville, Alabama 35802

3. PLACE AND DATE OF BIRTH:

Hamilton County, Chattanooga, Tenn.
 January 31, 1923

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):

Chief, Purchasing Office
 Building 4471, Telephone: 453-3334

5. DATE BEGAN WORK AT MSFC:

~~DATE~~ MAY 1960

6. A. PARENTS:

- MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:

MRS. J.N. BUCKNER

C. ADDRESS OF PARENTS:

CHATTANOOGA, TENN.

7. A. MARITAL STATUS:

- SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME:

MARTHA LEE WALDREP

C. NAME AND ADDRESS OF WIFE'S PARENTS:

DECEASED

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):

JAMES R. BUCKNER - 24 - KNOXVILLE TENN - ATTORNEY

9. HIGH SCHOOL(S) ATTENDED

CHATTANOOGA HIGH

LOCATION

CHATTANOOGA

YEAR GRADUATED

1951

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED

DATES ATTENDED

YR. GRAD

DEGREE

MAJOR

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK

DATES ATTENDED

DEGREE

MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)

FIRM

LOCATION

DATES

FROM TO

POSITION(S) HELD

REDSTONE Arsenal

MOBILE

APR 1951 - MAY 1960 - Purchasing

WESTERN Union

CHATTANOOGA

MAY 1946 - APR 1951 -

US. ARMY

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:

16. TECHNICAL PAPERS (name of publication and title):

17. PATENTS (name and date):

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE <i>JUNE 1943</i>	19. DATE(S) OF SEPARATION <i>FEB 1946</i>	C. BRANCH OF SERVICE (Army, Navy, AF etc) <i>ARMY</i>
D. RANK OR GRADE UPON SEPARATION: <i>S/SGT</i>	E. RESERVE STATUS (Component): <i>NONE</i>	F. RANK OR GRADE IN RESERVE:
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU. <i>NONE</i>		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Garland G. Buckner, ARTS-PR

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: **George Nicholas Constan**
215 Tchoungie Drive, Covington, La. 70433

3. PLACE AND DATE OF BIRTH:
Sparta, Greece
March 24, 1909

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):
Manager, Michoud Assembly Facility, MSFC, NASA
aw Orleans, La. 70129 (Phone: 255-2601)

5. DATE BEGAN WORK AT MSFC:

6. A. PARENTS:
 MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:
Deceased

C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS:
 SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME:
Louise Stephens

C. NAME AND ADDRESS OF WIFE'S PARENTS:
Deceased

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
Nicholas Constan 27 yrs., Shidell, La., Economist
Stephen Constan 21 years Covington, La., Student - LSU Baton Rouge

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Columbia High School	Columbia, South Carolina	1929

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Clemson College, Clemson, South Carolina	1929 - 1933	1933	B.S.	Chemistry

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
Georgia School of Technology, Atlanta, Ga. Picatinny Arsenal, Dover, N.J.	June-July '41 (Course Powder & Explosives) Dec '41 - Feb '42 (Course in Ammunition)		

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
Masons, AIAA, Covington Country Club, Federal Executive Association of New Orleans

13. TRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports):
Golf

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES FROM TO	POSITION(S) HELD
U.S. Army Ordnance Corps	Various ammo plants & command headqtrs	4/'42 5/'48	Insp. of Ordnance; admin off; production off; commanding off.
Milan Arsenal	Milan, Tennessee	5/'48 7/'51	Chief, Ammo Div.
Joliet Arsenal	Joliet, Illinois	7/'51 5/'56	Asst for Operations
ABMA, Redstone Arsenal	Huntsville, Ala	5/'56 7/'60	Chief, Prog Coord Off
MSFC, NASA	Huntsville, Ala	7/'60 9/'61	Chief, Tech Program

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
MSFC, Michoud Assy Fac **New Orleans, La.** **9/'61 Present** **Coordination Off. Manager**

16. TECHNICAL PAPERS (name of publication and title):

17. REFERENCES:

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
April 1942	May 1946	U.S. Army
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
Captain, Ordnance Corps	Army Ordnance (Retired Reserve)	Major
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU: THE STATE - Columbia, S.C.; Journal Constitution, Atlanta, Ga; Times-Picayune, New Orleans, La; St. Tammany Times, Slidell, La. Alumni Association, Clemson University, Clemson, S.C.		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Honorary Doctor of Science degree from Clemson College in June 1960

George M. Gordon, III

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: 9/67

WALTER G. CRUMPTON

Walter G. Crumpton, supervisor of Aerospace Engineering of the Manufacturing Engineering Laboratory, is instrumental in research and development methods of producing large structures such as the Redstone and Jupiter missiles.

A native of Birmingham, Alabama, Mr. Crumpton graduated from Ensley High School and attended the University of Alabama, Birmingham, Ala., (1937-40), Birmingham Southern College (1940-41), and Auburn University (1945-47) where he received his bachelor of science degree in mechanical engineering. Mr. Crumpton also has attended Birmingham School of Law (1949-50) for graduate work. Mr. Crumpton is a member of the American Institute of Aeronautics and Astronautics, Pi Tau Sigma, Kiwanis Club and on the Board of Directors, Huntsville YMCA.

Prior to his transfer to Huntsville in 1951, Mr. Crumpton worked as an assistant supervisor of the mechanical and electronics department for the Tennessee Coal and Iron Railroad Company, Bessemer, Alabama.

Mr. Crumpton, born January 14, 1919, is married to the former Miss M. Ann Scott of Birmingham, Alabama, and the couple has two children: Lea Ann, 18; and W. Scott, 15.

#

Request for Information

Please complete items 1 through 9 below on each of the parties concerned:

1. Name

Warner H. Dahn

3. Position and specialty

Chief, Aerodynamics Analysis Branch, Aerostallistics Division

4. Place of birth, date of birth

Cologne, Germany - February 16, 1917

5. If not born in U. S.: Native descent, length of time in U. S.

German descent - 15 years in U. S.

6. Race or descent

Caucasian

7. Language capabilities, incl. degree of fluency

German (Excellent)

8. Degrees: B.A.; A.M.; Ph.D.

B.S., M.S.

9. PIO evaluation as a speaker

- Not qualified
- Qualified for interview only
- Speaking to small groups
- Speaking to large groups
- Technical level only
- Popular level only
- Other comment

(X) unknown

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042 or 453-0043

CURRENT: 4/69

KONRAD K. DANNENBERG

Mr. Konrad K. Dannenberg is the Deputy Director of the Mission and Payload Planning Office, Program Development, at the Marshall Space Flight Center near Huntsville, Alabama.

Marshall Center was established on July 1, 1960, as a field center of the National Aeronautics and Space Administration. As such it provides space launch vehicles and payloads, conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop. The Orbital Workshop will be used for experiments in extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Mr. Dannenberg was born in Weissenfels, Saale, Germany, 1912, and came to the United States in 1945 when some 120 German-born scientists working at Germany's research and development center for rockets and missiles at Peenemuende joined the Army Ordnance team in America.

Mr. Dannenberg helped to develop the Redstone and Jupiter missile systems. He was the Jupiter project director from March 1958 until July 1960 when he was with the Army Ballistic Missile Agency at Redstone Arsenal, Alabama.

MORE

Prior to appointment to the position he now holds, Mr. Dannenberg was the Chief of the Mission Engineering Office in the Advanced Systems Office at Marshall Center.

Mr. Dannenberg gained his Master of Science degree in mechanical engineering from the Technical University in Hannover, Germany, in 1937. He is married and his son, a graduate of Auburn University, Auburn, Alabama, is employed with the International Business Machines Company.

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PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: June, 1969

WILBUR S. DAVIS

Wilbur S. Davis, a veteran of 31 years experience in purchasing and contracting, is the Director, Procurement Policy Review, at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Born in Bessemer City, N. C., he was educated in elementary and secondary schools in North and South Carolina. He studied business administration at Limestone College in Gaffney, S. C.

Mr. Davis began his career with the government in May, 1938, when he accepted a position in purchasing and contracting with the Army Civilian Conservation Corps in Charleston, S. C.

In 1941 he transferred to the Army Fourth Service Command's procurement department in Atlanta, Georgia. Later, in 1942, he became a member of the procurement staff for the Army Chemical Warfare Service in Atlanta.

When the Chemical Warfare Service purchased land in Alabama and activated Huntsville Arsenal in November, 1942, Mr. Davis was sent to Huntsville as Contracting Officer for the Army. He transferred from here to Tooele, Utah, for a two-year tour of duty and then to New York for two years before returning to Huntsville in July, 1953, to become Contracting Officer for the Army's Ordnance Corps at Redstone Arsenal.

He became a member of the Marshall Space Flight Center staff on April 10, 1960.

Mr. Davis is married and the couple has three children.

###

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

DATE: April 2, 1969

PLEASE PRINT OR TYPE

1. NAME & HOME ADDRESS:
 Fred E. Digesu
 7101 Jones Valley Drive, Huntsville, Ala. 35802

3. PLACE AND DATE OF BIRTH:
 Birmingham, Alabama
 April 14, 1922

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):
 Chief, Electronics & Control Division
 Preliminary Design Office, MSFC, 4202, 453-5722

5. DATE BEGAN WORK AT MSFC:
 July 1, 1960

6. A. PARENTS:
 MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:
 Mr & Mrs Sam Digesu

C. ADDRESS OF PARENTS:
 1605 So. 13th St.
 Birmingham, Alabama

7. A. MARITAL STATUS:
 SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME:
 Ann Wicker

C. NAME AND ADDRESS OF WIFE'S PARENTS:
 Mr & Mrs William Wicker
 Ft. Payne, Alabama

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 Anita Joanne - 6 years old
 Fred Michael (Mike) - 4 years old

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Ramsay High	Birmingham, Alabama	1940

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Auburn University	1946-1950	1950	BS	Elec Engr

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
University of Alabama, Huntsville, Alabama Washington University, St. Louis, Missouri	Toward an MS in Physics		

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 Elks Club, Knights of Columbus, Tau Kappa Epsilon (past president-1958-1950) Beta Kappa Nu, American Institute of Aeronautics & Astronautics (Associate Fellow Member)

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:
 Board of Directors, Montessori School of Huntsville
 Archery, Home Workshop

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
Electronics & Control Div. Preliminary Design Office	Marshall Spacecraft Center	Marshall Spacecraft Center	Feb '69 present	Chief
Advanced Studies Office Astrionics Laboratory	Marshall Spacecraft Center	Marshall Spacecraft Center	1959 1969	Chief
Flight Dynamics Branch Astrionics Laboratory	Marshall Spacecraft Center	Marshall Spacecraft Center	1958 1960	Asst. Chief

15. HAVE SPECIALIZED IN:
 Control System Design, and Analysis

16. PAPERS (name of publication and title):
 "Attitude Control of Explorer I", "Rocket Travel - Capabilities", "Space Vehicle Control Capabilities", "Space Vehicle, Guidance and Control", "Lunar Landing via Rendezvous", "A Discussion of the Lunar Landing"

17. PATENTS (name and date):
 Invented the "Ramrod" method of missile control in 1958

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
1940	1946	Merchant Marines
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
Lt. (j.g.)		

19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Item 14 continued:

Flight Simulation Section	Marshall Space Flight	1957	1958	Chief
Flight Dynamics Branch	Center			
Analog Computations Section	Marshall Space Flight	1956	1957	Dep Chief
Flight Dynamics Branch	Center			
Analog Computer Section	Marshall Space Flight	1950	1956	Engineer
Flight Dynamics Branch	Center			

FORM NO. 104 (REV. 1-54)

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 105, 453-0552

CURRENT: 4/69

JAMES F. DOWDY

James F. Dowdy is Chief of Training at NASA's George C. Marshall Space Flight Center near Huntsville, Alabama. He held this position in the Army Ballistic Missile Agency prior to the establishment of the MSFC on July 1, 1960. The Training Branch is an element of the Center's Manpower Utilization and Administration Office.

Established on July 1, 1960, as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program, and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, and the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Dowdy was formerly assigned as an educational specialist with the Director of Finance, United States Air Force. In this position he was responsible for determining world-wide training needs for Air Force finance personnel and for planning and coordinating training with other Air Force staff agencies.

A graduate of the University of Denver, Dowdy holds a B. S. degree in management and a Master's degree in public administration. He received the Governor's Scholastic Award for outstanding academic achievement while working on his Master's degree.

MORE

He is a member of the Pi Alpha Sigma, a professional fraternity in public administration.

From 1949 to 1951 he served as instructor and senior instructor in an Air Force Officer's Technical School. He was a management analyst and supervisory organization and methods examiner from 1951 to 1954 when he was appointed educational specialist.

During World War II Dowdy served three and one-half years in the U. S. Air Force, spending part of this time in the Pacific Theater with the 20th Air Force.

Dowdy was elected for a one-year term as president of the Administrative Officer's Association while on the business staff of the University of Denver in 1948. He is a member of the board of directors of Madison Academy; American Society for Public Administration; and past president of the North Alabama Chapter of the American Society for Public Administration and also a member of the American Society for Training and Development.

Dowdy is a native of Florence, Alabama, and is married to the former Shirley Mason. They have three children.

#

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

April 2, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: Friedrich Duerr 1101 Dale Drive, SE Huntsville, Ala. 35801		3. PLACE AND DATE OF BIRTH: Munich, Germany 1-26-09
4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): Return Instrument Unit Manager, Bldg. 4201, 453-0637		5. DATE BEGAN WORK AT MSFC: July 1, 1960
6. A. PARENTS: <input checked="" type="checkbox"/> MOTHER LIVING <input type="checkbox"/> FATHER LIVING	B. NAME OF PARENTS: Maria Dürr	C. ADDRESS OF PARENTS: Anna Hintermayr-Stift Augsburg, Germany
7. A. MARITAL STATUS: <input type="checkbox"/> SINGLE <input type="checkbox"/> MARRIED	B. WIFE'S MAIDEN NAME: Sigrun W. Hirth	C. NAME AND ADDRESS OF WIFE'S PARENTS: Hildur Hirth, Skanselien 5 Bergen, Norway

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 Rolf Duerr (28), Huntsville, Ala., Elec. Eng. Eirik G. Duerr (23), U. S. Army
 Finn F. Duerr (17)

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Luitpold Oberrealschule	Munich, Germany	1928

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Institute of Techn. - Stuttgart	1931-1932		BS	El. Eng.
Institute of Techn. - Munich	1928-1931			

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
Institute of Techn. - Munich	1935-1936	MS	El. Eng.

MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order) FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
Siemens Schuckert	Berlin Nuremberg	1936 1941	Project Engineer
Rocket Research Center Peenemünde	Peenemünde	1941 1945	El. Design Engineer

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
 Design of Electrical Network System for Rocket Launch Vehicles

16. TECHNICAL PAPERS (name of publication and title):
 "Preparing Range For Operations" in "Astronautics" periodical.

PATENTS (name and date):

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
7. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:

19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

- A. NASA Exceptional Service Medal, January 13, 1969, for outstanding contributions to the success of Apollo 8, mankind's first venture beyond earth gravity into orbit around the moon, December 21-27, 1968. His leadership, professional skill, and personal dedication were key factors in the extraordinary accomplishments of this flawless mission. Apollo 8 thereby significantly advanced the nation's capability and blazed a new trail for mankind into the vastness of extraterrestrial space.
- B. Certificate of Recognition, August 30, 1968, for initiating a cost reduction action in Fiscal Year 1968 saving the United States Government \$5,286,000.
- C. Outstanding Employee Rating, May 4, 1961, by Brig. Gen. R. M. Hurst, Army Ballistic Missile Agency.
- D. Outstanding Employee Rating, June 19, 1959, by Brig. Gen. J. A. Barclay, Army Ballistic Missile Agency.

APPROVAL

GEORGE C. MARSHALL SPACE FLIGHT CENTER
PUBLIC INFORMATION QUESTIONNAIRE
(INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

1. DATE:
March 6, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS:

Francis E. Evans
1 Park Street, S. E., Decatur, Alabama

3. PLACE AND DATE OF BIRTH:

Linden, Alabama 10/6/23

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):

Assistant Director of Safety - Safety Office, S-DIR,
Building 4200, Rm. 612, 453-2424

5. DATE BEGAN WORK AT MSFC:

January 1958

6. A. PARENTS:

MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:

Mr. & Mrs. T. E. Evans

C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS:

SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME:

Ella Dunning

C. NAME AND ADDRESS OF WIFE'S PARENTS:

Dr. G. J. Dunning, Sr.
Linden, Alabama

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):

Francis Jr. Age 20, William, Age 9, Marione, Age 17.

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Linden High School	Linden, Alabama	1941

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
University of Alabama	1949-1952	1952	BS	ME

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
Southern Methodist University	1955		ME
University of Southern California	1968		AERO
University of Alabama, Huntsville	1966 to Present		Industrial

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
Professional Engineer of Alabama and AIAA; Fraternities including: Tau Beta Pi, Phi Eta Sigma, Pi Mu Epsilon, Pi Tau Sigma

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:
Scouts - Sports

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order) FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
Western Electric Co.	Greensboro, N. E.	1952 1955	Project Engineer
Convair, Div. of General Dynamics	Fort Worth, Texas	1955 1958	Senior Design Engr.
Army Ballistic Missile Agency	Huntsville, Alabama	1958 1960	Special Assistant & Chief of Propellant Group

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
Kinematics, (primarily gear trains), structures (primarily light weight) cryogenic and heat transfer and CO_2/LH_2 rocket stage development and support.

16. TECHNICAL PAPERS (name of publication and title):
Contributor to: Handbook of Astronautical Engineering.

17. PATENTS (name and date):
None

PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040 or 453-0042 CURRENT: June 1969

DR. PRESTON T. FARISH

Dr. Preston T. Farish is Chief of Systems Safety and Manned Flight Awareness in the George C. Marshall Space Flight Center's Program Management. As Chief of these organizational segments, he is responsible for formulating plans and procedures to produce safe hardware for Saturn launch vehicles. Dr. Farish is also responsible for providing Marshall and Industry a comprehensive awareness program in the areas of Manned Flight Launch Vehicles. He has the responsibility to devise and implement methods and procedures and direct personnel to accomplish these tasks to assure the safety of the astronauts on the Saturn vehicles.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

A native of Alabama, Dr. Farish was born in Beatrice, graduated from Escambia County High School in Atmore, and earned his degrees in chemistry in Alabama colleges. He is a graduate of Troy State College where he received his Bachelor of Science degree. His Master of Science and Ph. D.

-more-

degrees were awarded at Auburn University. He has also taken post-graduate training at the Massachusetts Institute of Technology and the Oak Ridge Institute of Nuclear Studies.

Upon receiving his Ph.D. in 1958, Dr. Farish joined the Auburn University staff as an assistant professor. His duties included teaching undergraduate and graduate courses and conducting research.

Dr. Farish joined the Marshall Space Flight Center in 1961.

A veteran of three years service with the United States Air Force, he was wounded twice in action in World War II. Dr. Farish is a member of the Disabled American Veterans, Veterans of Foreign Wars, American Legion, Gamma Sigma Delta, Sigma Xi, and Alabama Academy of Science. He is a member of the Board of Directors of Alabama Tuberculosis Association, Huntsville YMCA Board of Directors, Chairman of Board of the Sherwood Civic Association and is a steward in the Methodist Church.

Since living in Huntsville, Dr. Farish has been Marshall's Coordinator for establishing the Alabama Research Institute, member of the Redstone Graduate Steering Committee, Chief of Staff of Disabled American Veterans of Alabama, Commander of Chapter 26 of Disabled American Veterans, and Chairman of the Madison County Heart Fund. While Chairman of the Heart Fund Committee, he was instrumental in developing the metropolitan plan that has been adopted by the American Heart Association for fund raising. He is now a member of Huntsville's Board of Education.

-more-

While living in Auburn, he was chairman of the Official Board of Grace Methodist Church, and was District Scout Commissioner.

He was a Little League coach there from 1958 to 1960.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040

CURRENT: 6/69

W. SCOTT FELLOWS

W. Scott Fellows is Chief, Research and Evaluation, Safety Office, at the Marshall Space Flight Center, near Huntsville, Alabama. Prior to appointment to his present position, he was the Director, Operations Management Office, Research and Development Operations; Chief of the Center's Cost Reduction and Value Engineering Office; and Chief of the Nuclear Vehicle Projects Office, respectively.

Established on July 1, 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Fellows is a retired Air Force colonel with over 6,000 hours flying experience, including jet aircraft. He is a graduate of the Air Force Experimental Test Pilot School and has had numerous assignments involving technical program management of Air Force research

and development projects. Included among these was the duty as associate member of the Committee on Aeronautics and the Committee on Guided Missiles of the Research and Development Board during the late 1940's before the establishment of the Department of Defense. Later he served as Assistant Manager for Technical Programs for the Lockland Aircraft Reactor Operations Office, Atomic Energy Commission, in developing nuclear propulsion for application to aircraft.

Mr. Fellows holds a Bachelor of Science degree in mechanical engineering from Ohio State University and a Master of Science degree from Purdue University. He is a graduate of the Oak Ridge School of Reactor Technology where he studied nuclear engineering. He is a registered professional engineer in Ohio.

His military decorations include the Legion of Merit, the Distinguished Flying Cross with one Oak Leaf Cluster, and the Air Medal with four Oak Leaf Clusters.

He is a member of Sigma Alpha Epsilon and Gamma Alpha Rho fraternities, an Associate Fellow of the AIAA, and a charter member of the Air Force Association and the American Nuclear Society.

Mr. Fellows is married and the couple has three children.

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELATIONS)

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: **WILLIAM A. FERRELL**
 567 E. LINDS AVENUE
 MEMPHIS, TENN.

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & address): **PROJ. MGR., MISSISSIPPI SPACE CENTER**
 Box 4201
 MS 38803

6. A. PARENTS:
 MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENT: **MRS. LEAN FERRELL**

C. ADDRESS OF PARENT: **200 W. 10th St. Memphis, Tenn.**

7. A. MARITAL STATUS:
 SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME: **FAYE VANN**

C. NAME AND ADDRESS OF WIFE'S PARENTS: **MR. & MRS. FLOYD VANN, ST. 4**

8. NAMES AND AGES OF CHILDREN (if out of school, place of residence & occupation):
DENISE ANN 7
DEAN VANN 6

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
DRISTOW HIGH	DRISTOW, TENN.	1957

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	DEGREE	MAJOR
OKLA. UNIV. NORMAN, OKLA.	AUG-52	B.S.	Mechanical Eng.

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR LEAD WORK	DATE ATTENDED	DEGREE	MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS, ETC. (Name and address):
AIAA, AS-E

13. EXTRACURRICULAR ACTIVITIES (past, present, or future) such as public office, civic work, hobbies or sports:
COMM. OFFICER IN ROTARY CLUB, SAILING, GOLF, WOODWORKING

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	FIRM	LOCATION	DATES FROM	TO	POSITION(S) HELD
HUGHES TOOL CO.	HUGHES TOOL CO.	HUSTON, TEX.	1952	1958	DESIGN ENGINEER
U.S. ARMY	U.S. ARMY	FT. MONROE, VA.	1958	1960	DESIGN ENGINEER
ABMA -> NASA	ABMA -> NASA	MEMPHIS, TENN.	1960	-	DESIGN ENGINEER

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
STRAIN GAGING TURBINE WHEELS

16. TECHNICAL PAPERS (name of publication and title):

17. PATENTS (name and date):

18. A. DATE OF ENTRY INTO MILITARY SERVICE JAN 1954	B. GRADE AT ENTRY PVT	D. SERVICE NUMBER A
C. RANK OR GRADE UPON SEPARATION: CORPORAL	E. RESERVE STATUS (REGULAR) NONE	F. RANK ON SEPARATION (SEE 18C) CORPORAL
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PUBLICATIONS OR ALLIED BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Sustained Superior Performance Award, USAR, 1954

W. V. ...

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 876-6988

CURRENT: February 1969

HANS J. FICHTNER

Hans J. Fichtner is chief of the Electrical Systems Integration Division of the Marshall Space Flight Center's Astrionics Laboratory near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. Established in 1960, it provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Fichtner was born September 8, 1917, in Leipzig, Germany. In 1938, he received his bachelor's degree in electrical engineering from the Institute of Technology in Ilmenau, Germany.

Prior to coming to the United States he worked at Heeresversuchsstelle Peenemuende, Germany. Fichtner has over 25 years experience in the design and development of electrical systems for missiles and space vehicles. During this time he has contributed much to advance electrical systems to the present day state of the art. He participated in major programs, such as Redstone, Jupiter, Jupiter C, Juno II, Redstone-Mercury, and Saturn. He was also engaged in the Explorer satellite series, where excellent results were obtained.

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PUBLIC INFORMATION QUESTIONNAIRE
INFORMATION PROVIDED HEREON IS UNCLASSIFIED

2. NAME & HOME ADDRESS: William E. ...
3320 ...

4. PRESENT JOB AND COMPANY: ...
Work Amer ...

6. A. PARENTS: MOTHER LIVING
 FATHER LIVING
B. NAME OF ...

7. A. MARITAL STATUS: MARRIED
B. WIFE'S ...

8. NAMES AND AGES OF CHILDREN: Mrs. ...
Mrs. ...

9. HIGH SCHOOL(S) ATTENDED: Massena ...

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED: Dutch State ...
Amherst, ...

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR ...
U.S. Naval ...
Mass. Inst. ...

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, ...
Masonic Lodge, ...

13. EXTRACURRICULAR ACTIVITIES: ...
Associate ...
Fire ...

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)

FIRM	LOCATION	DATES FROM TO	POSITIONS HELD
U.S. Navy			
Engineer to Acting ...			
of ...			
with ...			
last ...			

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
Aeronautics, ...
for Aircraft and Railroads, ...

16. TECHNICAL PAPERS (name of publication and title):
See ...
US Naval Institute Proceedings ...
Science Journal, ...

17. PATENTS (name and date):
NONE YET

18 A (D. TRIS) OF ENERGY ACT M. START DATE	1938	1A
19 RANK OR GRADE (UNDER EVALUATION)	CAPTAIN	2A
19 NAME AND ADDRESS OF NEWSPAPER, PULP MAGAZINE, BULLETIN OR OTHER PERIODICAL PUBLISHED BY THE EMPLOYER	Ogdensburg Daily News, Ogdensburg, N.Y. NASSI/MSTE Magazine, 1100 ... Program	
20 REMARKS (facts not covered above, such as awards, decorations, or other ones you want mentioned) <p> Was Manager, NASSI/MSTE Magazine, ... during construction and ... Hold U.S. Army ... with Gold Star Member of ... One of the ... of the ... Chief of ... U.S.G. ... </p>		

PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040 or 453-0042 CURRENT: June 1969

DAVIS FOXWORTHY

Davis Foxworthy is the Director, Technical Services Office, Administrative and Technical Services, at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Foxworthy was born in Bradfordsville, Marion County, Kentucky, on June 21, 1913, and graduated from Fleming County High school in 1929. He joined the research and development team in Huntsville in January 1948. Prior to that time, from 1930 until 1942, he had followed the construction trade. In 1942 he joined the U.S. Navy as a Chief Petty Officer in the 82nd Naval Construction Battalion.

Upon returning to civilian life in 1946, Mr. Foxworthy entered construction again. He was a construction superintendent for general construction in Birmingham and Huntsville until 1948 when he became Assistant Post Engineer for Operations at Redstone Arsenal.

-more-

Mr. Foxworthy has been with the Marshall Space Flight Center since its activation on July 1, 1960.

Mr. Foxworthy is a member of the Society of American Military Engineers, Masonic Lodge, Veteran of Foreign Wars, and Disabled American Veterans.

Mr. Foxworthy, who is married to Edith Halley Jones, has two children: Mrs. Charles Houston of Huntsville; and Robert L. Foxworthy of Greenwood, Indiana.

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION SECTION
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)
 PLEASE PRINT OR TYPE

April 4, 1960

1. NAME & HOME ADDRESS: Ernst D. Geissler
 3604 Mae Drive, S.E., Huntsville, Alabama

2. PLACE AND DATE OF BIRTH: Chemnitz, Saxony, Germany
 August 4, 1915

3. PRESENT JOB AND COMPLETE ADDRESS (Organization, Building No. and Postal Office): Director, Aero-Astrodynamics Laboratory
 MSFC, Building 4200, Room 510, 453-3014

4. DATE OF GRADUATION AT COLLEGE: 1960

5. A. PARENTS: MOTHER LIVING FATHER LIVING
 B. NAME OF PARENTS: Deceased

6. ADDRESS OF PARENTS:

7. A. MARITAL STATUS: SINGLE MARRIED
 B. WIFE'S MAIDEN NAME: Gerda K. Stricker

8. NAME AND ADDRESS OF PLACE WHERE MARRIED: Martha Stricker
 Sidney, British Columbia

9. NAMES AND AGES OF CHILDREN (If list of school, state if resident of same):
 Barbara Stokes, 28, Nashville, Tennessee, 484 Brentlawn Road
 Katharina Geissler, 20, Student

10. HIGH SCHOOL(S) ATTENDED: Humanistisches Staatsgymnasium
 LOCATION: Chemnitz, Germany
 YEAR ATTENDED: 1934

11. NAME AND LOCATION OF COLLEGE(S) ATTENDED: Technical University of Dresden (Germany)
 YEAR ATTENDED: 1934-36
 YEAR GRADUATED: 1936
 DEGREE: BS
 FIELD: Physics & Mathematics

12. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK: Technical University of Dresden (Germany)
 YEAR ATTENDED: 1939
 DEGREE: MS Tech Sciences
 Technical University of Darmstadt
 YEAR ATTENDED: 1951
 DEGREE: Ph.D Appl Math

13. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC ORGANIZATIONS: Associate Fellow AIAA

14. EXTRACURRICULAR ACTIVITIES (from college years on, unless other, give with date of activity):

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	FIRM	LOCATION	DATES FROM TO	POSITIONS HELD
See Attachment #1				

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN: See Attachment #2

16. TECHNICAL PAPERS (name of publication and title): See Attachment #3

17. PATENTS (name and date): Artificial stabilization by angle of attack meters or accelerometers, date about 1949 together with R. Hoelker. Aerodynamically stable missile, 1964 together with W. Dahm.

ATTACHMENT #1

In 1939, Dr. Geissler served as an Assistant Professor at the Institute for Physics of the Technical University of Dresden. From 1940-1943 he was employed by the German government at Peenemunde as a physicist, and worked on stability and control problems pertaining to the V2 missile development. From 1943-1945 at Peenemunde, he was a section chief in charge of flight mechanics, stability and control, and guidance theory of the Wasserfall anti-aircraft missile. From 1945-1950, he was employed by the U. S. Army's Research and Development Office in Fort Bliss, Texas, as group leader for flight mechanics and aerodynamics on the Hermes II missile development program. From 1950-1960, he served as Director, of the Aeroballistics Laboratory, Army Ballistic Missile Agency, Huntsville, Alabama. From 1960 to the present time he has served as Director, Aero-Astrodynamics Laboratory, Marshall Space Flight Center, NASA, Huntsville, Alabama. The functions of this laboratory include responsibility for development activities on space vehicles and conduct of related supporting research in the areas of performance studies, flight mechanics, guidance and control theory, flutter and vibration analyses, fuel sloshing analyses, test flight evaluation, aerodynamics, and aerospace environmental development.

ATTACHMENT #2

While with ABMA, Dr. Geissler's talents were directed to the development of the Redstone, Jupiter and Poshing ballistic missiles, and the Explorer I and Pioneer V space vehicle programs. During his service with MSFC, he has devoted his efforts to the Saturn I, the Up-rated Saturn I, and the Saturn V launch vehicle development programs. He is currently engaged in Apollo Application Program activities, as well as the future launch vehicle systems.

Dr. Geissler has made substantial contributions in the area of stability and control theory. While working on the theory of pursuit curves, he introduced a concept for a new homing principle. He has obtained several patents in this area.

ATTACHMENT #3

Recent papers published by Dr. Geissler are:

- (1) "Problems in Attitude Stabilization of Large Guided Missiles (Aerospace Engineering Journal-October 1960)
- (2) Saturn Guidance and Control (Aerospace Engineering Journal, co-authored February 1962)
- (3) Saturn Flight-Control Systems (Astronautics and Aeronautics, co-authored May 1966)
- (4) Advanced Control Systems for Launch Vehicles (Astronautics and Aeronautics, Co-authored August 1966)
- (5) Adaptive Guidance for Saturn Vehicles (co-authored for presentation at the XVII International Astronautical Congress in Madrid, Spain, October 1966; to be published in the proceedings of the Congress)
- (6) Editor, Wind Effects on Launch Vehicle Aerodynamics; to be published in Spring of 1969

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE TYPE FOR NEWS RELEASE)
 PLEASE PRINT OR TYPE

9 June 1969

NAME & HOME ADDRESS:		PLACE AND DATE OF BIRTH:	
Werner K. Gengelbach 1464 Sugar Loaf Drive, Pasadena, California 91103		Germany Sep 29, 1912	
4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):		DATE BEGAN WORK AT THIS:	
NASA S-11 Resident Manager /Space Div, 12214 Lakewood Blvd North American Rockwell, /Downey, Calif 90241		August 1962	
6. A. PARENTS:	B. NAME OF PARENTS: /Phone: (213) 594-2714	ADDRESS OF PARENTS:	
<input type="checkbox"/> MOTHER LIVING <input type="checkbox"/> FATHER LIVING	Deceased	-	
7. A. MARITAL STATUS:	B. WIFE'S MAIDEN NAME:	C. NAME AND ADDRESS OF WIFE'S PARENTS:	
<input type="checkbox"/> SINGLE <input checked="" type="checkbox"/> MARRIED	Elisabeth Pflug	Deceased	
8. NAMES AND AGES OF CHILDREN (if out of school, place of residence & occupation):			
Helga Fahramandi, age 29, 909 Cottonwood Drive, San Jose, Calif. Housewife Heike Tennant, age 26, Stanford, Calif. Housewife			
9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED	
Oberrealschule	Weimar, Germany	1933	
10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATE ATTENDED	DEGREE	MAJOR
Federal Institute of Technology Darmstadt, Germany			
11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATE ATTENDED	DEGREE	MAJOR
Federal Institute of Technology Darmstadt, Germany	1933-1933	MS	EE
12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:			
Member of the Institute of Electrical and Electronic Engineers			
13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:			
14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order, FIRM)	LOCATION	DATE FROM TO	POSITION(S) HELD
NASA/MSFC, JPL, Pasadena	Pasadena, Calif	Aug 62-Feb 64	MSFC Res. Engineer
Adv Technology Co.	Santa Barbara, Calif	Jun 59-May 62	Secretary-Treasurer
AVCO Crosley Division	Santa Barbara, Calif	Feb 58-	Eng. Planning Consultant
Aerophysics Devel. Corp.	Santa Barbara, Calif	Sep 57-Feb 58	Asst. Dept. Mgr. and Asst. Chief Engineer
USAF	Holloman AFB, N.M.	Jul 56-Sep 57	Chief, Plans Div.
15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:			
High Voltage Research (Postgraduate work)			
16. TECHNICAL PAPERS (name of publication and title):			
-			
17. PATENTS (name and date):			
German Patent - Deutsches Patentamt o 815571 Instr. for locating faults in high voltage cables.			

18. A DATE OF ENTRY INTO MILITARY SERVICE	B. DATE MADE A MEMBER	D.
-		
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL BULLETINS OR JOURNALS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU	<p><i>Frederick Post Office</i> <i>Frederick, Maryland</i></p>	

20. REMARKS (facts not covered above, such as awards, decorations, or citations you wish to mention)

[Faint, illegible text]

11

Frederick

11/11

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: 11/68

ROY E. GODFREY

Roy E. Godfrey is the Deputy Manager of the Saturn V Program at the Marshall Space Flight Center near Huntsville, Alabama.

The George C. Marshall Space Flight Center is a field center of the National Aeronautics and Space Administration.

Major activities at the Marshall Center concern the development and use of NASA's large launch vehicles for space exploration. Personnel at the Center also perform basic research, develop payloads for space flights, and conduct studies of advanced systems for space flight operations.

Employing about 6,300 persons, the Marshall Center occupies 1,800 acres in the heart of Redstone Arsenal. Laboratories, engineering buildings and test facilities are valued at \$400 million.

Among the Center's current programs are the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program. The follow-on program, known as Apollo Applications, calls for additional lunar landings and the conversion of the second (S-IVB) stage of the Saturn I into an earth orbital workshop for three astronauts.

Born in Knoxville, Tennessee, November 23, 1922, Mr. Godfrey was educated in Tennessee schools. He is a 1941 graduate of Knoxville High School and attended the University of Tennessee to earn a Bachelor of Science degree in mechanical engineering. Graduate work in mechanical engineering was also done at the University of Tennessee. Mr. Godfrey is a member of the American Institute of Aeronautics and Astronautics.

MORE

Mr. Godfrey, who served as a second lieutenant with the U. S. Air Force during World War II, began his engineering career with the Tennessee Valley Authority in Knoxville in 1949. In 1953 he became a member of the research and development team at Redstone Arsenal, Alabama, when he accepted a position with the Ordnance Missile Laboratories. When the Army Ballistic Missile Agency was created at Redstone Arsenal in 1956, Mr. Godfrey transferred to the new Agency. The Development Operations Division of the Army Ballistic Missile Agency became the nucleus for establishing the George C. Marshall Space Flight Center in July 1960. In January 1962, Mr. Godfrey transferred to Marshall Center to become the Deputy Director of the Reliability and Quality Assurance Laboratory. He served as project manager of the S-IVB Stage of the Saturn V vehicle from January 1964 through December 1967; then as project manager of the S-II Stage from January-July 1968. Mr. Godfrey then assumed the duties of his present position.

The son of Mr. and Mrs. Samuel C. Godfrey of Knoxville, he is married to the former Miss Barbara Ann Adams and the couple has five children: Pamela Jean, 19; Roy Steven, 16; Richard, 15; David, 14; and Jan, 12.

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PUBLIC INFORMATION QUESTIONNAIRE

INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE

March 2, 1967

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: Erich E. Goerner 108 Dale Drive, S. E., Huntsville, Alabama		3. PLACE AND DATE OF BIRTH: Frankfurt-Main, Germany April 14, 1930		
4. PRESENT JOB AND COMPLETE ADDRESS (Organization, Building, Number & Section): Director, Preliminary Design Office, Program Development, Rm. 515, Bldg. 4202, Ph: 453-4151		5. DATE ORGANIZED AT WORK: July 1, 1960 (August 2, 1954, with Army: LMDD and ABMA)		
6. A. PARENTS: <input type="checkbox"/> MOTHER LIVING No <input type="checkbox"/> FATHER LIVING No	B. NAME OF PARENTS: Johannes Goerner Marie Goerner	C. ADDRESS OF PARENTS: Deceased		
7. A. MARITAL STATUS: <input type="checkbox"/> SINGLE <input checked="" type="checkbox"/> MARRIED	B. WIFE'S MAIDEN NAME: Ellen Trumpfheller	C. NAME AND ADDRESS OF WIFE'S PARENTS: Mr. & Mrs. Johannes Trumpfheller Darmstadt, Germany		
8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation): None				
9. HIGH SCHOOL(S) ATTENDED: Ziehen-Oberreal Schule (Ziehen High School)		LOCATION: Frankfurt-Main, Germany	YEAR GRADUATED: 1928	
10. NAME AND LOCATION OF COLLEGE(S) ATTENDED (S): Technical Hochschule, Darmstadt, Germany (Technical University)		DATES ATTENDED: 1928-1934	DEGREE(S) RECEIVED: 1934	MAJOR(S): Dipl. Civil Engr. (M. S. Structures)
11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK:		DATES ATTENDED:	DEGREE(S) RECEIVED:	MAJOR(S):
Same as Item 10		1931-1934	Same	Same
12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS, OR OTHER ORGANIZATIONS: Associate Fellow of AIAA since 1955; Member Nat'l Geographic Society since 1955; Honorary member of Hermann Oberth Society since 1964.				
13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies, etc. (List in chronological order): Charter Member of the Huntsville Civic Symphony (Dec 1954 - Fall of 1956) Hobbies: Wood Working, Metal Working, Gardening, Swimming, etc.				
14. PRINCIPAL PREVIOUS WORK EXPERIENCE (List in chronological order): FIRM		LOCATION	DATES FROM TO	POSITION(S) HELD
See Attachment				
15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN: See Attachment				
16. TECHNICAL PAPERS (name of publication and title): Author of a number of German papers on strength and stability of shells; author of ABMA Report IR9 (6 Feb 56) "Buckling Characteristics of Spherical or Spherically-dished Shells"; author of article published in December 1956 issue of Space/Aeronautics magazine: "LOX Prevalve to Prevent POGO Effect on Saturn V"; Paper ("The Saturn Project") given to Hermann Oberth Society on June 25, 1964, in Darmstadt, Germany.				
17. PATENTS (name and date): None				

1. A. TYPE OF ENTRY INTO MILITARY SERVICE	B. DATE OF SEPARATION	C. GRADE
None		
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Approved)	F. EMPLOYER (If in military)
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PUBLICATIONS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

- (a) I was a member (1936-1945) of the German Lilienthal Society for Aeronautical Research.
- (b) I was a member (1959-1960) of the NASA Research Advisory Committee on Structural Design.

1950-1951 "Lilienthal Society"

George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Public Affairs Office
Marshall Space Flight Center, Alabama

Date: April 3, 1967

ERICH E. GOERNER

Erich E. Goerner is Acting Director of the Preliminary Design Office, Program Development.

Mr. Goerner, a native of Frankfurt-Main, Germany, came to this country in 1954 and became a naturalized U. S. citizen in 1960. During the years 1928-1934, he attended the Technical University of Darmstadt, Germany, where he received his Master of Science Degree (Diplom Ingenieur) in Civil Engineering (Structures).

During the following four-year period, until the end of 1938, he was employed by a German Aeronautical Research Institute in Darmstadt as an Aeronautical Research Engineer in the field of structural analysis and materials. Following this time, Mr. Goerner accepted employment with the Messerschmitt Aircraft Company in Augsburg, Germany, and was in charge of the analytical and experimental strength analysis of the Delta Wing Rocket-powered Aircraft and Guided Missiles under development (Me 163, Enzian-missile, etc.).

This activity was terminated with the end of World War II.

In the years following World War II, until Summer of 1954, Mr. Goerner was engaged in the construction business, particularly in the development of prestressed concrete structures.

In 1954 he accepted an offer from the Department of the U. S. Army to join the Dr. von Braun Team at Redstone Arsenal, Alabama. Starting in the Fall of 1954 as an Assistant to the Chief of the Structures and Mechanics Laboratory of the Guided Missile Development Division, he assumed in 1955 the position of Chief of the Structural Analysis Section of the Army Ballistic Missile Agency. In 1958 he served as Special Assistant to the Chief of the Structures Branch in the Structures and Mechanics Division of ABMA, and assumed the position of Deputy Chief of this Branch in 1964.

None

When the National Aeronautics and Space Administration's George C. Marshall Space Flight Center was established July 1, 1960, Mr. Goerner transferred along with the majority of the Dr. von Braun Team to this organization. He remained Deputy Chief of the Structures Branch at the Marshall Center until 1962 when he was reassigned to the position of Chief of the Advanced Studies Office, Propulsion and Vehicle Engineering Laboratory.

Mr. Goerner assumed the duties of his current position on March 17, 1969.

After establishment of the National Aeronautics and Space Administration in 1958, Mr. Goerner served as representative of the Army Ballistic Missile Agency on the NASA Research Advisory Committee on Structural Design and its Sub-committee for Spacecraft Structures until his transfer to NASA-Marshall Space Flight Center in 1960. During his employment with ABMA, Mr. Goerner was assigned the responsibility for adequate static and dynamic strengths of the Jupiter and Jupiter-C ballistic missiles, as well as the Explorer I satellite, and the Juno II space probes. After joining NASA, his activities included assignments in connection with the Atlas-Agena, Atlas-Centaur, and the Saturn development programs.

None

2. NAME & HOME ADDRESS: Robert Lamonte Goldston, Rt 1, Box 122, Huntsville, Alabama 35810
 3. PLACE AND DATE OF BIRTH: Kannapolis, North Carolina June 3, 1922

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): Installation Data Manager, Chief, Data Mgmt Office, Planning & Resources, Prog Mgmt, 4201, 453-0740/41
 5. DATE BEGAN WORK AT WORK: Nov 1963

6. A. PARENTS: MOTHER LIVING FATHER LIVING
 B. NAME OF PARENTS: Deceased
 C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS: SINGLE MARRIED
 B. WIFE'S MAIDEN NAME: Martha Olive
 C. NAME AND ADDRESS OF WIFE'S PARENTS: Deceased

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 Marta Olive Goldston - Age: 11

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
J. W. Cannon High School	Kannapolis, North Carolina	1939

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	DEGREE	MAJOR
North Carolina State College	1939-41		Mach.
	1945-48	1948 BSME	Engr.

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
University of Oklahoma	1967-1968-1 69		Public Adm'n.

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 Reserve Officers Association
 American Ordnance Association, American Society of Mechanical Engineers

13. EXTRACURRICULAR ACTIVITIES (Not college) such as public office, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES FROM TO	POSITION(S) HELD
NASA-MSFC	Huntsville, Ala.	Nov 63-Present	Ch, Data Management etc
Army Ballistic Missile Agency	Huntsville, Ala.	Aug 53-Nov 63	Eng.-Pershing&Jupiter Programs
Air Materiel Command	Warner Robins, (Macon)Ga.	Oct 52-Aug 53	Aero. Engineer
U. S. Airforce		Aug 50-Sep 52	
Cannon Mills Co.	Kannapolis, N.C.	Jan 48-Aug 50	Mech Design Engr

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
 Aerodynamics, Electronics, Program Management

16. TECHNICAL PAPERS (name of publication associate):
 "NASA Documentation & Configuration Management" - presented to 8th Annual AGA Meeting-5/67
 "Data Management at Marshall Space Flight Center"-presented to 2nd Annual AGA Meeting-5/66
 "Lessons Learned in Data Management"- presented to 9th Annual AGA Meeting-May 67

17. PATENTS (name and title):

17. A. DATE OF ENTRY INTO MILITARY SERVICE		B. DATE OF SEPARATION		C. SERVICE	
2 Apr 42 11 Aug 50		9 Nov 45 8 Sep 52		U. S. Army Air Corps U. S. Air Force	
D. RANK OR GRADE UPON SEPARATION:		E. RANK OR GRADE UPON RECALL:		F. RANK OR GRADE IN RESERVE:	
Major		Retired Reserve		Major	
18. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPER, SCHOOL PUBLICATION OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU:					
Daily Independent, Kannapolis, N. C. University of Oklahoma Alumni News, Norman, Oklahoma American Ordnance Association, Washington, D. C.					
19. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):					

10-11 (4-19-52)

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: June 1967

JOHN C. GOODRUM

John C. Goodrum is Chief, Project Logistics Office, Industrial Operations, at the NASA-Marshall Space Flight Center in Huntsville, Alabama. Prior to this assignment, which became effective October 1, 1963, he was Assistant Director for Industrial Operations in the Saturn Systems Office of Marshall Center.

Goodrum, a Mississippian, was born in Vicksburg and earned his Bachelor of Science degree in civil engineering in 1939 at Mississippi State University. He went to the University of Iowa to obtain his Master of Science degree in hydraulic engineering.

Since becoming a member of the research team here, Goodrum has served as Director of the Engineering Division, Army Ballistic Missile Agency; Project Director of the Honest John Missile System; and Chief of the Program Coordination Office in NASA-Marshall's Central Planning Office.

He is a member of the National Society of Professional Engineers and the American Ordnance Association, and is a founder and member of the Board of Directors of the Society of Logistics Engineers. Mr. and Mrs. Goodrum have two children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: May 1969

HARRY H. GORMAN

Harry H. Gorman is Marshall Space Flight Center's Deputy Director, Management, and also serves in a NASA Headquarters assignment as Chairman of the Personnel Management Review Committee, reporting to the Administrator.

Marshall is a field center of the National Aeronautics and Space Administration. Its main responsibility is to provide the large Saturn rockets for use in the nation's manned space flight program. In addition, it is charged with designing, building and testing the next generation of manned spacecraft, following the Apollo lunar landing effort. The follow-on program, known as Apollo Applications, calls for a cluster of "payloads" to be brought together in earth orbit to form an early workshop in space. The major spacecraft elements for which MSFC is responsible are the Saturn I Workshop, Apollo Telescope Mount, Multiple Docking Adapter, and Airlock Module.

A native of Illinois, Mr. Gorman was born in Jerseyville on September 1, 1914. He is a graduate of Jerseyville High School. His Bachelor of Science degree in business administration was earned at St. Louis University, St. Louis, Missouri.

Mr. Gorman has had 19 years experience in business management including ten years with the Atomic Energy Commission

-more-

Mr. Gorman was stationed in the New York Procurement District in various administrative positions while in the Army and was Director of Budget in the Atomic Energy Commission's San Francisco Operations Office. In addition to his position with the Lockland Operations Office just before coming to Huntsville, Mr. Gorman served as Deputy Assistant Director of the Division of Reactor Development in Washington, D.C.

He is married and the couple has seven children.

CITY COUNCIL PLACE #5

WILLIAM L. (BILL) CRAFTON 605 O'FALLON ROAD, LL

43 YEARS OF AGE

DIVISION CHIEF IN TEST LABORATORY - NSFC

BORN IN MERIDIAN, MISSISSIPPI

MOVED TO HUNTSVILLE IN 1952

MILITARY SERVICE - 5 YEARS AIR CORPS DURING WORLD WAR II - FLEW B-29 SUPERFORTRESS ON B-29, FLYING FROM THE ESCAPE, SHOT DOWN ON APRIL 15, 1944 (FRIDAY) - P.O.W. FOR 15 MONTHS - IN CAMP WHERE PERCENT ESCAPES TOOK PLACE.

B.S. DEGREE IN ENGINEERING FROM MISS. STATE UNIVERSITY IN 1946.

CAME TO WORK AT REYNOLDS ARSENAL IN 1952 ON REYNOLDS W. COLE. STAYED WITH ABNA, WHEN NSFC WAS REORGANIZED, AS DIRECTOR OF THE TEST, EVALUATION, AND FIRING LABORATORY. MOVED TO NASA, TEST LABORATORY IN 1962 IN PRESENT POSITION.

ONE OF THE FOUNDERS AND DEVELOPERS OF CATHEDRAL SYSTEMS, INC. (AT CRAFT, AND BNA). SERVED AS CHAIRMAN OF THE BOARD OF DIRECTORS FOR ABOUT TEN YEARS.

GEORGE C. MARSHALL SPACE FLIGHT CENTER
PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE) April 1, 1969
 PLEASE PRINT OR TYPE

1. NAME & HOME ADDRESS: 2. PLACE AND DATE OF BIRTH:
 Dieter Grau Berlin-Charlottenburg, Germany
 1508 Owens Drive, S. E., Huntsville, Ala. 35801 April 24, 1913

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): 5. DATE BEGAN WORK AT MSFC:
 Director, Quality and Reliability Assurance July 1, 1960
 Laboratory, MSFC, Bldg. 4708 (453-3722)

6. A. PARENTS: B. NAME OF PARENTS: C. ADDRESS OF PARENTS:
 MOTHER LIVING Georg Ernst Grau Neckerstr. 4
 FATHER LIVING Helene Grau 1542 Falkensee, Germany/D.D.R.

7. A. MARITAL STATUS: B. WIFE'S MAIDEN NAME: C. NAME AND STATUS OF PREVIOUS WIVES:
 SINGLE Esther E. Schaffner Oskar Schaffner - deceased
 MARRIED E. Ernst Schaffner - deceased

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 Peter W. D. Grau, 20, Student at University of Tennessee, Knoxville
 Evelyn M. Grau, 16

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Schiller Realgymnasium	Berlin-Charlottenburg, Germany	1931

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	DEGREE	FIELD
Technical University Berlin, Germany	Sept. 1932 - Aug. 1937	1937	B.S. Electrical & M.S. Engineering

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD WORK	DATES ATTENDED	DEGREE	FIELD

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 AIAA, ASQC

13. EXTRACURRICULAR ACTIVITIES (not college) such as public voice, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES	POSITION(S) HELD
FIRM		FROM TO	
(See Item 20.)			

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:

16. TECHNICAL PAPERS (name of publication and title):
 See attached sheet.

17. PATENTS (name and date):

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. TYPE OF SERVICE (Active, Reserve, etc.)
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component)	F. BRANCH BRIGADE IN RESERVE:

19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPERS, SCHOOL YEAR BOOKS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Item 14, cont'd

Siemens-Schuckertwerke A. G.	Berlin-Siemensstadt, Germany	1937 - 1943	Design Engineer (automatic equipment and systems)
Elektromechanische Werke	Karlshagen/Pommern, Germany	1942 - 1945	Electrical Engineer (testing and checkout of guided missiles)
Department of the Army Ordnance R&D Sub-Office	Fort Bliss, Texas	1945 - 1950	Section Chief (development and design of electrical networks for guided missiles and its accessories)
Department of the Army	Redstone Arsenal Huntsville, Ala.	1950 - 1955	Same as above.
Army Ballistic Missile Agency	Huntsville, Ala.	1955 - 1957	Supervisory Guided Missile Design Engineer
Army Ballistic Missile Agency	Huntsville, Ala.	1957 - 1958	Deputy Project Officer (Engineering) in Operation Hardback
Army Ballistic Missile Agency	Huntsville, Ala.	1958 - 1960	Deputy Director, Systems Analysis and Reliability Division
NASA, G. C. Marshall Space Flight Center	Huntsville, Ala.	1960 - present	Director, Quality and Reliability Assurance Laboratory

PUBLICATIONS

(Engineering Reports of a Classified Nature)

1. The REDSTONE Missile - Description of the Circuits of the Missile and the Launching Equipment Based on the Schematic Diagrams. (Author, 1953)
2. Tactical REDSTONE Missile - Sequence of Testing. (Author, 1955)
3. Environmental Requirements and Tests for the Research and Development Phase of Guidance and Control Equipment for the REDSTONE Missile. (Author, 1955)
4. The Tactical REDSTONE Missile - Design Criteria for the Electrical Network of the Missile and its Test and Firing Equipment. (Author, 1955)
5. Field Testing of the REDSTONE Missile. (Author, 1955)
(Contribution to a comprehensive report, "Field Handling of the REDSTONE Missile and Description of Associated Ground Equipment.")
6. Report on a Study of the Safety Aspects of VMA and VMA For Operation Hardback. Field Command, Armed Forces Special Weapons Project. (Father author nor co-author, but contributions acknowledged, 1957)
7. Operation Hardback, April - October 1958. Project 9.3a: Operation of a missile carrier for Very-High-Altitude Nuclear Detonations. Headquarters Field Command, Armed Forces Special Weapons Project. (Co-author for major part, 1959)
8. Army Support of High-Altitude Tests. Project 9.3a. (Co-author for major part, 1960)

18. A. DATES OF ENTRY INTO
MILITARY SERVICE

May 5, 1942

November 7, 1945

ART

D. RANK OR GRADE UPON RECEPTION

Corporal

None

19. NAMES AND ADDRESS OF NEWSPAPERS, PERIODICALS, AND BULLETINS WHICH SHOULD BE INTERESTED IN NEWS ABOUT YOU

None

20. REMARKS (facts not covered elsewhere, such as what is, character, or other as you want mentioned):

None

WILLIAM B. CHAMBERLAIN, CO

PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR RESEARCH PURPOSES)
 PLEASE PRINT OR TYPE

April 1, 1960

2. NAME & HOME ADDRESS:		CITY AND STATE:	
Foster A. Haley 2427 Penn St, SW, Huntsville, Ala. 35801		Cirena (Walker Co.), Ala.	
4. PRESENT JOB AND COMPLETE ADDRESS (Include location, telephone number & zip code. Last began work at date):			
Deputy Chief, Public Affairs Office Bldg 4200, PH: 3-0032		June, 1960	
6. A. PARENTS:		B. NAME OF PARENTS:	
<input type="checkbox"/> MOTHER LIVING <input type="checkbox"/> FATHER LIVING		Dr. Paul S. Haley (deceased) Mrs. Grace Woodhead Haley ("")	
C. ADDRESS OF PARENTS:		Jasper, Alabama	
7. A. MARITAL STATUS:		B. WIFE'S MAIDEN NAME:	
<input type="checkbox"/> SINGLE <input checked="" type="checkbox"/> MARRIED		Annie Mma Katherine Moon	
C. NAME AND ADDRESS OF WIFE'S PARENTS:		Mr. Leslie Moon, Avon St, Atlanta, Ga. (Mother deceased)	
8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):			
Paul Russell Haley, age 22 John Douglas Haley, age 17			
9. HIGH SCHOOL(S) ATTENDED:			
Oakman High School	Oakman (Walker Co.), Ala.	1935	
10. NAME AND LOCATION OF COLLEGE(S) ATTENDED (Include name, address, city, state, zip code):			
Auburn University	1935-37, 38-40	1. In 1938	
B'ham Southern College			
Auburn University			
11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR PH.D. (Include name, address, city, state, zip code):			
University of Alabama	1948	Name: M. S. G. G.	
MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, ORGANIZATIONS, CLUBS, ETC. (List name and address):			
Lambda Chi Alpha, Rocket City Astronomical Assn, American Museum of Natural History National Geographic Society, Draft No. 45 (Medical Council), Advisory Committee			
13. EXTRACURRICULAR ACTIVITIES (Not colleges) such as public office, civic work, and other responsible positions:			
The People's Party of Alabama, etc.			
14. PRINCIPAL PREVIOUS WORK EXPERIENCE (Give in chronological order):			
FIRM	LOCATION	DATE	POSITION HELD
(Please see attached sheet)			
15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:			
Popular science			
16. TECHNICAL PAPERS (name of publication and title):			
No technical. Articles published in various general magazines.			
17. PATENTS (name and date):			

18. A. DATES OF ENTRY INTO MILITARY SERVICE May 15, 1941	B. DATE OF SEPARATION April 20, 1947	C. GRADE OR RATE AT SEPARATION Army Air Corps
D. RANK OR GRADE UPON SEPARATION Major, USAR	E. REASON FOR SEPARATION Resigned	F. NAME OF COMMANDING OFFICER
19. NAMES AND ADDRESSES OF NEWSPAPERS, TRADE PUBLICATIONS, JOURNALISTS, SCHOOLS, COLLEGES OR ALIEN BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU. Possibly the "Marshall Star."		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Former member or officer:

- Madison County Mental Health Association (director).
- American Legion (member)
- Harris Home for Negro Children (director)
- Lions International (member)
- Junior Chamber of Commerce (member; delegate to International Convention).
- Huntsville-Madison County Chamber of Commerce (ex-officio member)
- March of Dimes (Campaign chairman) Madison County)
- Veterans of Foreign Wars (member)
- Association of U. S. Army (")
- American Ordnance Assn. (")
- American Rocket Society (")

Military Awards: American Theatre Ribbon w/with 2 stars (and 2nd campaign).

VA Form 100-10

GEORGE C. MARSHALL SPACE FLIGHT CENTER
PUBLIC INFORMATION QUESTIONNAIRE
(INFORMATION PROVIDED HERE WILL BE MADE AVAILABLE TO THE PUBLIC)

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: Marion S. Hardee 3833 Croydon, Slidell, La. 70778		3. GRADE AND DATE OF BIRTH: 1st Lt 1943	
4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): Assistant Manager, Michoud Assembly Facility MSFC/NASA, New Orleans, La. 70513-2402		5. DATE BEGAN WORK AT WORKING: June 6, 1965	
6. A. PARENTS: <input checked="" type="checkbox"/> MOTHER LIVING <input type="checkbox"/> FATHER LIVING	B. NAME OF PARENTS: Marie Davis Hardee	C. ADDRESS OF PARENTS: P.O. Box 137 Trenton, Florida	
7. A. MARITAL STATUS: <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MARRIED	B. WIFE'S MAIDEN NAME:	C. NAME AND ADDRESS OF WIFE'S PARENTS:	
8. NAMES AND AGES OF CHILDREN (if out of school, place of residence & occupation): Cary Lee Hardee Age 18 years			
9. HIGH SCHOOL(S) ATTENDED		LOCATION	YEAR GRADUATED
Trenton High School		Trenton, Florida	1961
10. NAME AND LOCATION OF COLLEGE(S) ATTENDED		DATES ATTENDED	DEGREE
University of Florida Gainesville, Florida		1961 - 1963	MS Bachelor
11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK		DATES ATTENDED	DEGREE
None			
12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS: Federal Executive Association, New Orleans, La.			
13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports: Golf, Fishing, Boating, Bowling			
14. PREVIOUS WORK EXPERIENCE (list in chronological order) FIRM		LOCATION	DATES FROM TO
G.E. Company		Montgomery, Ala.	1963 - 3
U.S. Army, Redstone Arsenal		Montgomery, Ala.	1963 - 6
NASA/MSFC		Huntsville, Ala.	1963 - 3
NASA/MSFC/MAF		New Orleans, La.	1965 - 2
NASA/MSFC/MAF		New Orleans, La.	1965 - P
15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN: None			
16. TECHNICAL PAPERS (name of publication and title): None			
17. PATENTS (name and date): None			

18. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. GRADE OR RATE
July 15, 1943	January 17, 1945	A-1
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component)	F. GRADE OR RATE UPON SEPARATION
Aviation Metalsmith 3C	--	--
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOLS, BULLETINS, OR OTHER BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU Gainesville Sun, Gainesville, Florida; University of Florida, Gainesville, Florida; Galchrist County Journal, Trenton, Florida; Huntsville Times, Huntsville, Alabama; Times-Picayune, New Orleans, La; St. Tammany Times, Slidell, La.		
20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned)		

NO-PR 70, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040 or 453-0042 CURRENT: June 1969

THEODORE U. HARDEMAN

Theodore U. Hardeman is Chief of the Financial Management Office, Administration and Technical Services, at the George C. Marshall Space Flight Center near Huntsville, Alabama. Prior to appointment to this position he was Chief of the Plans and Program Branch of the Center's Technical Program Coordination Office.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

A native of Decatur, Georgia, Hardeman graduated from Los Gatos Union High School, Los Gatos, California, and attended the University of Georgia.

He was employed by the Ford Motor Company, Atlanta, Georgia, in charge of production scheduling from 1937 to 1942, when he came to Redstone Arsenal as chief of Production Control. He moved to Joliet, Illinois, in 1947 as chief of the National Production Control Branch for the Ordnance Ammunition Command.

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Mr. Hardeman was transferred back to Redstone Arsenal in 1956 as chief of the Army Ballistic Missile Agency's Control Office, Programs Branch, and on July 1, 1960, he was transferred with ABMA's Development Operations Division to the National Aeronautics and Space Administration.

The son of A. E. Hardeman, Sr., of Venice, Florida, Hardeman is married to the former Margie Dickens of Huntsville, Alabama. The couple has no children.

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DR. WALTER HAEUSSERMANN

Current: April 1969

Dr. Walter Haeussermann is Director, Central Systems Engineering, at the George C. Marshall Space Flight Center, Huntsville, Alabama. A native of Kuenzelsau, Germany, he received his Doctorate (Dr.-Ing) in physics and mathematics from the Institute of Technology at Darmstadt. After two and one-half years work in guidance and control in the Peenemuende Rocket Research Center, he returned to the Institute of Technology at Darmstadt and continued his research work for the German Army and Navy.

From January 1946 to June 1947, Dr. Haeussermann performed research and development work on analog computers and accelerometers for the U. S. Army and taught at the College of Engineering, Darmstadt. He came to the United States in 1948 under contract to the U. S. Army as a member of Dr. von Braun's team which was engaged in the development of guidance and control systems for ballistic missiles at Fort Bliss, Texas.

Later, this group transferred to Redstone Arsenal, Huntsville, Alabama. During the period from 1950 to 1956, the Army's Redstone missile was developed by the Guided Missile Development Division of the Ordnance Missile Laboratories. In 1954, Dr. Haeussermann became a naturalized U. S. citizen and Director of the Guidance and Control Laboratory which later became the Astrionics Laboratory of the George C. Marshall Space Flight Center.

In 1956, the Guided Missile Development Division became the Development Operations Division of the newly-established Army Ballistic Missile Agency. Dr. Haeussermann's work has included research and development in the guidance and control field for the Jupiter IRBM system, the Pershing missile system, and the earth satellite undertakings supporting the International Geophysical Year.

As Director of the Astrionics Laboratory of the George C. Marshall Space Flight Center, established July 1, 1960, Dr. Haeussermann was responsible for guidance, control, navigation, instrumentation and network systems of the multi-stage Saturn vehicles developed under the National Aeronautics and Space Administration.

Effective April 1, 1969, Dr. Haeussermann became the Director of the newly-established Central Systems Engineering of the Marshall Space Flight Center.

Since 1966 Dr. Haeussermann has been a member of the Auburn University graduate faculty as professor for electrical engineering.

For outstanding work in his field, Dr. Haeussermann received the Department of the Army Decoration for Exceptional Civilian Service award on March 26, 1959. On October 1, 1963, he was awarded the NASA Medal for Outstanding Leadership, and on January 13, 1969, he received the NASA Exceptional Service Medal.

PUBLIC AFFAIRS OFFICE

George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/ C 205, 453-0042

CURRENT: June 1969

KARL L. HEIMBURG

Karl L. Heimburg is the Director of the Astronautics Laboratory at the George C. Marshall Space Flight Center near Huntsville, Alabama. He was previously the Director of the Centers' Test Laboratory.

Marshall is a field center of the National Aeronautics and Space Administration. Established on July 1, 1960, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Heimburg, a 1935 mechanical engineering graduate of the Technical University of Darmstadt, Germany, joined the C. Illies Company, Hamburg, Germany/ Tokyo, Japan, Korea and Manchuria until the spring of 1942, when he joined the Germany Guided Missile Center at Peenemuende and participated in the design of the A-7 glider rocket missile.

After completion of the A-7 program, Heimburg participated in research and development of the V2 and Wasserfall missiles. In 1945, along with some 120 other German-born scientists and engineers, Heimburg came to the United States to work in America's research and development program for missiles and rockets at Fort Bliss, Texas, and Huntsville, Alabama.

MORE

He was named Chief of the Test Laboratory, a position he maintained until he was appointed Chief of the Propulsion and Vehicle Engineering Laboratory on December 16, 1968. P&VE Laboratory became the Astronautics Laboratory in March 1969.

On November 8, 1963, Heimburg was presented the Hermann Oberth Award for outstanding contributions in the advancement of the state of-the-art in rocket testing. He was awarded NASA's Exceptional Service Medal in January, 1969, for his contribution to the Apollo 8 lunar orbital mission.

Heimburg, who was born in Lindenfels, Hessen, Germany, on January 29, 1910, became a U. S. citizen on April 14, 1955.

He is married and the couple has three children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

CURRENT: 6/69

Telephone: A/C 205, 453-0040

EMIL A. HELLEBRAND

Mr. Emil A. Hellebrand is a technical assistant to the Director of Astronautics Laboratory at the George C. Marshall Space Flight Center near Huntsville, Alabama. Prior to appointment to his present position, he was the Deputy Director of the Propulsion and Vehicle Engineering Laboratory.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Hellebrand, who was awarded a Master of Science degree by the Institute of Technology in Darmstadt, was an instructor in engineering joining the V-2 team at Germany's Rocket Development Center in Peenemuende in 1940. While there, he served as Chief of the Advanced Structures group for five years. He came to the United States in 1946 as Chief of the Stress Section of the U. S. Army Ordnance Corps' rocket

and missile research activities at Fort Bliss, Texas.

In 1950, when the Army's research and development team was moved to Redstone Arsenal, Mr. Hellebrand was Chief of the Structural Analysis Section and became Special Assistant to the Director, Structures and Mechanics Laboratory in 1956. He served in this capacity until 1958 when he became Chief of the Structures Branch of that Laboratory.

On July 1, 1960, when the Development Operations Division of the U. S. Army Ordnance Missile Command's Army Ballistic Missile Agency became the George C. Marshall Space Flight Center, Mr. Hellebrand was Chief of the Project Office and later became Assistant Director of the Structures and Mechanics Division, which later became Propulsion and Vehicle Engineering Laboratory, and is now the Astronautics Laboratory.

Mr. Hellebrand was born August 1, 1914, in Vienna, Austria, and became a U. S. citizen in November 1954. He is married to the former Miss Katie E. Grein of Darmstadt, Germany, and the couple has three children: Bernd, 29; Gudrun, 26; and Almut, 24.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: May 1969

GERHARD B. HELLER

Gerhard B. Heller is the Director of the Space Sciences Laboratory at the George C. Marshall Space Flight Center near Huntsville, Alabama. Prior to assuming his present duties, Mr. Heller was the Chief of the Space Thermo-physics Division of the Space Sciences Laboratory.

Marshall is a field center of the National Aeronautics and Space Administration. Its main responsibility is to provide the large Saturn rockets for use in the nation's manned space flight program. In addition, it is charged with designing, building and testing the next generation of manned spacecraft, following the Apollo lunar landing effort. The follow-on program, known as Apollo Applications, calls for a cluster of "payloads" to be brought together in earth orbit to form an early workshop in space. The major spacecraft elements for which MSFC is responsible are the Saturn I Workshop, Apollo Telescope Mount, Multiple Docking Adapter, and Airlock Module.

Born in Eschwege, Germany, on January 24, 1914, Mr. Heller attended the University of Goettingen where he received his B.S. degree in chemistry and physics in 1938. He received his M.S. degree in physics from the Institute of Technology, Darmstadt, Germany, in 1940.

Mr. Heller's career in the field of guided missiles began in 1940 when he joined the German Guided Missile Center, Peenemuende, where he was placed in charge of early rocket motor research and development

-more-

Later on he directed the thermodynamics research of the Center. He came to the United States in 1945 and joined the Research and Development Division, Fort Bliss, Texas, where he worked on ramjet research until 1950. He then transferred to the Guided Missile Development Division at Redstone Arsenal, Alabama, in charge of ramjet and thermodynamics research. In 1953 he became the Scientific Assistant to Wernher von Braun, the Chief of the Guided Missile Development Division. Upon activation of the Army Ballistic Missile Agency, Mr. Heller was made Chief of the Fluid and Thermodynamics Branch of the Research Projects Laboratory, ABMA. He participated in the research and development of the REDSTONE and JUPITER missile projects.

Mr. Heller has been engaged in the promotion of space flight for more than 25 years. His first official space assignment began in 1953 with work on satellite technology, trajectories, tracking, and instrumentation. He participated in studies which were carried out under the leadership of Dr. Wernher von Braun, whose satellite proposal, Project Orbiter, became an active project in 1954. After cancellation of this project, Mr. Heller continued to work on the thermophysics aspects of satellites. When Project EXPLORER was assigned to the Army Ballistic Missile Agency in 1957, Mr. Heller had the assignment for the satellite thermal control and temperature investigation for the Development Operations Division of ABMA. During this time, he investigated the application of supersonic arc jets for reentry simulation and electrical propulsion.

Since its inception, he has participated in the APOLLO-SATURN project. He studied especially the electromagnetic radiation aspects of the space

environment and its effects on SATURN upper stages and spacecraft. He was in charge of the thermal control of PEGASUS I, II, and III, and of thermal environmental flight experiments flown on these three satellites. He has studied the thermophysical properties of the moon and the planets, planetary remote sensing by IR and UV radiation measurements. He, as Chief of the Space Thermophysics Division of Space Sciences Laboratory, initiated, together with his coworkers, numerous space flight experiments in the areas of thermophysics, lunar and planetary studies, and IR and UV astronomy.

Mr. Heller has been a member of the thermophysics community for many years and was instrumental in the formal establishment of the Thermosphysics Committee of the AIAA in 1963. He served as chairman of this committee in 1966 and 1967. He has published extensively on the subjects of thermal problems of space vehicles, electric propulsion, lunar infrared investigations and astronomy. He was the editor of Volumes 18 and 20 of the AIAA Series, "Progress in Astronautics and Aeronautics."

Mr. Heller is married to the former Hertha Dithmar of Germany. They are the parents of Rainer Heller (age 26), presently an officer in the U.S. Air Force, and Hertha Heller (age 24), a mathematician with IBM Corporation, Huntsville.

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PUBLIC AFFAIRS OFFICE
National Aeronautics and Space Administration
George C. Marshall Space Flight Center
Huntsville, Alabama

Telephone: A/C 295 876-6988 or 876-6074 Current: April, 1966

MACK HERRING

Mississippi Test Facility Public Information Officer, Mack Herring, is a former employee of MTF's parent organization--the NASA George C. Marshall Space Flight Center in Huntsville, Alabama.

Large space vehicle stages, assembled at Marshall's Michoud Assembly Facility in New Orleans, will be tested at Mississippi Test Facility.

Herring worked for 18 months in the News Branch of Marshall's Public Affairs Office.

As ex-newspaper reporter, Herring was Public Information Officer at the U. S. Army Aviation Center at Fort Rucker, Alabama, before coming to work for NASA.

Herring was a reporter for the Dothan Eagle, a daily newspaper in Dothan, Alabama, for four years. He covered the police and city beats for that South Alabama newspaper.

His first newspaper job was with his hometown weekly--the Geneva County Reaper in Geneva, Alabama. He served as news editor of that paper before accepting a job with the Dothan Eagle.

Herring studied journalism for four years at the University of Alabama. His minor subjects were English and creative writing.

While working at Marshall, Herring helped in the following information programs: the launch of Astronauts John Glenn and Walter Schirra, Ranger moon shots, Saturn test flight, and visit of President Kennedy.

He served as Public Information Officer for one month at NASA's World's Fair Exhibit in Seattle, Washington.

Herring and his wife, Joan, have two boys: Steven Lee 8; and Kyle Jackson 6.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: June 1967

OLIVER M. HIRSCH

Oliver M. Hirsch is Chief of the NASA-Marshall Space Flight Center's Industrial Operations' Contracts Office, Huntsville, Alabama. Prior to joining Marshall, he was the U. S. Army's Pershing Ballistic Missile System Project Manager.

Hirsch retired from the Regular Army as a Colonel on October 31, 1963, after having served as Deputy Commanding General for all Land Combat Missile Systems since 1962.

He came to Redstone Arsenal in 1955 as Executive Officer and Chief of Staff to the Commanding General of Redstone Arsenal. A participant in the Ordnance Executive Development Program in 1957, Hirsch attended graduate school at the University of Chicago where he earned a master's degree in business administration while concurrently spending two years studying industrial operations of major corporations headquartering in the Chicago area.

The Contracts Office Chief returned to Redstone Arsenal in 1959 as Director of Industrial Operations of the Army Ballistic Missile Agency.

A veteran of more than 20 years service, Hirsch is a native of Kansas City, Missouri, and majored in mechanical engineering at Kansas City Junior College and agriculture at the University of Missouri at Columbia, Missouri.

###

April 9, 1956

2. NAME & HOME ADDRESS: Otto A. Hoberg
 3804 Panorama Drive, SE Huntsville, Alabama
 W. Cohen, Germany
 September 5, 1912
 3. PRESENT JOB AND COMPLETE ADDRESS (including city and state):
 Deputy Director, Central Systems Engineering
 July 1, 1960

6. A. PARENTS:
 MOTHER LIVING
 FATHER LIVING
 B. NAME OF PARENTS: Deceased
 C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS:
 SINGLE
 MARRIED
 B. WIFE'S MAIDEN NAME: Gisela M. Sonnen
 C. NAME AND ADDRESS OF WIFE'S PARENTS:

8. NAMES AND AGES OF CHILDREN (If not all, list those mentioned in question 6):
 Victor Hoberg, age 26, employed in Huntsville, resides at home
 Christian Hoberg, age 21, student at University of Miami, Florida

9. HIGH SCHOOL(S) ATTENDED	LOCATION	GRADUATION DATE

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	DEGREE	MAJOR
Technical University, Darmstadt, Germany		BS	EE

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
Technical University, Darmstadt, Germany	1939	MS	

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:
 (Include to extent known any awards, prizes or medals)

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES FROM	TO	POSITION
Present to 1960	NASA/MSFC	Redstone Arsenal		
1945 to 1960	U. S. Army	Redstone Arsenal		

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
 Missile instrumentation and communication

16. TECHNICAL PAPERS (name of publication and title):

17. PATENTS (name and date):

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

CURRENT: 6/69

Telephone: Area Code 205, 453-0040

DR. HELMUT HOELZER

Dr. Helmut Hoelzer is Director of the Computation Laboratory of the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Dr. Hoelzer directs a staff whose mission is to pioneer the use of electronic digital and analog computers, and mathematical techniques for all phases of space vehicle research, development, and testing.

Before his transfer to NASA on July 1, 1960, Dr. Hoelzer was director of the Computation Laboratory of the Army Ballistic Missile Agency's Development Operations Division, which was at that time an element of the U. S. Army Ordnance Missile Command at Redstone Arsenal, Alabama.

Prior to his assignment with ABMA's crash program to develop the JUPITER Intermediate Range Missile, Dr. Hoelzer was chief of the Computation Laboratory at Redstone Arsenal.

Dr. Hoelzer was born on February 27, 1912, in Bad Liebenstein, Germany, and has been active in the fields of electronic computers and guided missiles in both Germany and this country for approximately 20 years.

From 1940 through 1945 he pioneered the development of analog computers both for use as on-board equipment and for ground computing and simulation. In 1941 he developed an electronic analog computer for the solution of differential equations and the "mixing computer," the heart of the control system of the V-2 missile. The principles of these computers have been adopted in the majority of present day guided missiles, as well as in analog computing equipment. Several patents of advanced analog computers were awarded to him. He also developed the remote control system for the V-2.

A graduate of the Technical University, Darmstadt, Germany, Dr. Hoelzer received a master's degree in electronics and holds a doctorate in mathematics and natural sciences. He taught at the Aviation Colleges at Frankenhausen during 1935-1936, and Darmstadt during 1937-1938.

In 1946, Dr. Hoelzer, along with a number of other German-born scientists, came to the U.S. under Project "Paperclip" to aid United States Army Ordnance in its rocket and guided missile program. He became a U.S. citizen in April 1955.

Dr. Hoelzer was awarded the Army's highest civilian award in April 1959, the Exceptional Civilian Service Decoration, at Redstone Arsenal, Alabama.

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

CURRENT: September 1967

Telephone: A/C 205, 876-6988 or 876-6074

JESSE C. HORN

Jesse C. Horn is Chief of the Construction Branch in the office of Facilities and Design at Marshall Space Flight Center, Huntsville, Alabama.

Mr. Horn attended McAlester High School, McAlester, Oklahoma, and received his bachelor of science degree in civil engineering from the University of Oklahoma (1930-34). He is a member of the Society of American Military Engineers and the National Society of Professional Engineers.

Prior to coming to Huntsville in 1960, Mr. Horn was a construction engineer with the Oklahoma Highway Department (1934-39), and an engineer with the Corps of Engineers, Tulsa, Oklahoma (1939-50), and (1950-60) Tullahoma, Tennessee.

Born in May 1912, Mr. Horn is married to the former Miss Jean Stewart and the couple has two children: Alan, 30; and Stewart, 25.

#

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC AFFAIRS)

April 1, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: Hans Hueter
 79 Locust Ave, SE, Huntsville, Ala. 35801

3. PLACE AND DATE BORN: Bern, Switzerland
 March 21, 1906

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, Building, Room #, etc.): Deputy Director, Program Management, PM-DIR
 Bldg 4201, PH: 453-2163

5. DATE BEGAN WORK AT WORK: Since inception

6. A. PARENTS: MOTHER LIVING FATHER LIVING

B. NAME OF PARENTS: Deceased

C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS: SINGLE MARRIED

B. WIFE'S MAIDEN NAME: Ruth Jeremias

C. NAME AND ADDRESS OF WIFE'S PARENTS: Deceased

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 Eike Hueter, 30 yrs, North Carolina; Uwe Hueter, 27 yrs, Huntsville, Ala;
 Wendula Hueter, 24 yrs, Paris, France.

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Oberrealschule Mainz	Germany	1925

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YE. GRAD.	DEGREE	MAJOR
Technikum Mittweida, Germany	1925 - 1927		B. S.	Mech. Engr.

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 American Institute of Aeronautics & Astronautics (Alabam. Chapter)

13. EXTRACURRICULAR ACTIVITIES (not college) such as: public office, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
MSFC, NASA		Huntsville, Ala.	1963 - present	Deputy Director Program Management
MSFC, NASA		Huntsville, Ala.	1960 - 1963	Dir, Spec. Assignments
ABMA		Redstone Arsenal, Ala	1951 - 1960	Director Sys Support Equip Lab
Dept of Army		Ft. Bliss, Tex.	1945 - 1951	Tech Advisor and Flight Test Engr.
German War Dept		Peenemuende, Germany	1937 - 1945	Chief Test Engr. & Dir of GSE

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:

16. TECHNICAL PAPERS (name of publication and title):

17. PATENTS (name and date):

18. A. DATE OF ENTRY INTO MILITARY SERVICE	B. DATE OF SEPARATION	C. GRADE
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component)	F. DATE OF YOUR DEPARTURE
19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPER, SCHOOL, ORIGINALLY OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU		

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

Was awarded the Army's highest civilian award, the Exceptional Civilian Service Decoration in April 1959 at Redstone Arsenal, Alabama.

Received honorary Doctor of Science degree from Adelphi College, Garden City, New York, June 10, 1959.

REC-11 100000 11

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

CURRENT: June 1967

Phone: A/C 205, 876-6074 or 876-6988

CHAUNCEY W. HUTH

Chauncey W. Huth is Assistant to the Deputy Director, Administrative, at the National Aeronautics and Space Administration's George C. Marshall Space Flight Center, Huntsville, Alabama.

The Marshall Center, which was established on July 1, 1960, is responsible for developing NASA's large launch vehicles.

Huth held management, program planning, and missile design positions with the Army at Redstone Arsenal for eight years prior to his transfer to the Marshall Center on May 30, 1960.

A native of Atlanta, he was graduated from the Georgia Institute of Technology in 1936 with a Bachelor of Science degree in Mechanical Engineering.

From 1940 to 1946 he served in the Army at Springfield Armory, Mass. The last three years of his assignment there he was Works Manager, in the grade of colonel. Huth now is a colonel in the Army Reserve, serving as commanding officer, Logistical Command, USAR, Huntsville, Alabama.

Huth was appointed negotiator and was instrumental in working out a satisfactory working agreement between the U. S. Army Ordnance Missile Command and the Marshall Center on services that the Command would render to the Center.

MORE

He is committee chairman of the Kiwanis Club in Huntsville, a member of the board of directors for Redstone Arsenal Credit Union, and a member of the Vestry of the Episcopal Church of the Nativity.

He is married to the former Mary A. Gilder, daughter of Mrs. W. A. Gilder of Montgomery, Alabama, and the couple has two children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042 or 453-0043

CURRENT: 8/69

LEE B. JAMES

Lee B. James is the Director of Program Management at the Marshall Space Flight Center near Huntsville, Alabama. Prior to appointment to his present position he was Manager of the Saturn Program Office of Program Management.

Marshall is a field center of the National Aeronautics and Space Administration. Established on July 1, 1960, the Center provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

James, a retired Army colonel, came to Huntsville in 1956 as a member of the Army Ballistic Missile Agency staff at Redstone Arsenal. The Agency developed the Jupiter missile under the leadership of General J. B. Medaris, ABMA commanding general, and Dr. von Braun, the Agency's development operations division director.

In 1960, when the von Braun team transferred to NASA, Mr. James remained with the Army to serve as the director, and later as the deputy director, of ABMA's newly formed Research and Development Division. After a tour of duty in Korea in 1961 and 62, Mr. James was reassigned by the Army to the von Braun group in NASA. He worked for one year in the director's office as deputy to Dr. Eberhard Rees. Dr. Rees is the deputy director of research at NASA's Marshall Space Flight Center.

MORE

In 1963, Mr. James became Director, Saturn I/IB Program Office at Marshall. Later, he was assigned the duties of the Deputy Director, Apollo Program in the Office of Manned Space Flight, NASA Headquarters, in Washington, D. C. Prior to becoming the Manager of the Saturn Program Office of Program Management at MSFC, he was the Saturn V Launch Vehicle Manager.

Mr. James holds a bachelor of science degree in military engineering from the United States Military Academy at West Point, New York, and a master of science degree in guided missiles and aeronautics from the University of Southern California at Los Angeles.

He was among the first Army officers assigned to the field of guided missiles and space vehicles. Except for the one-year tour of duty in Korea, he has served continuously in the field of guided missiles and space vehicles since 1947. Research and development assignments in guided missiles and space vehicles have included tours of duty at the Army Air Defense Center, Fort Bliss, Texas; Atlantic Missile Range, Cape Kennedy, Florida; Office of the Chief of Research Development of the Army at the Pentagon, Washington, D. C.; command of a Nike Battalion at Baltimore, Maryland; and the Research and Development Program, Army Ballistic Missile Agency, Huntsville, Alabama.

While on overseas duty with the Army, Mr. James taught mathematics for the University of Maryland.

Mr. James has been initiated into the following honorary organizations: Tau Beta Pi, the engineering honorary society, and Pi Tau Sigma, the mechanical engineering honorary society. He has also been appointed a senior member of the American Institute of Aeronautics and Astronautics and has served on the ARS

MORE

JAMES, Lee B.

Page 3 of 3 Pages
CURRENT: 8/69

Missile and Space Vehicle Committee. On January 13, 1969, Mr. James was awarded NASA's Exceptional Service Medal for his contribution to the Apollo 8 lunar orbital mission.

The son of Mr. and Mrs. F. E. James of Maxton, N. C., he is married to the former Miss Kathleen Galloway, daughter of Dr. and Mrs. Roy Galloway of Columbia, Tennessee, and the couple has two children.

###

April 7, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS:

Melvin Johnson
 700 Four Mile Post Road, Huntsville, Ala. 35802

3. PLACE AND DATE OF BIRTH:

McGregor, N. D.
 October 9, 1909

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):

Deputy Manager, ATM Project, Program Management, MSFC, Bldg 4201, Rm 531, Phone 453-0840

5. DATE BEGAN WORK AT MSFC:

July 1960

6. A. PARENTS:

- MOTHER LIVING
 FATHER LIVING

6. B. NAME OF PARENTS:

Anna Johnson
 Carl O. Johnson

6. C. ADDRESS OF PARENTS:

McGregor, N. D.

7. A. MARITAL STATUS:

- SINGLE
 MARRIED

7. B. WIFE'S MAIDEN NAME:

Irene Swenson

7. C. NAME AND ADDRESS OF WIFE'S PARENTS:

Cecelia & Oscar J. Swenson
 McGregor, N. D.

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):

Larry L. Johnson, Phoenix, Ariz., Electronics Engineer, Sperry Flight Systems
 James D. Johnson, Sewanee, Tenn., Sr., Univ. of the South, Chemistry & Pre-med.

9. HIGH SCHOOL(S) ATTENDED

LOCATION

YEAR GRADUATED

McGregor High School

McGregor, N. D.

1927

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED

DATES ATTENDED

YR. GRAD.

DEGREE

MAJOR

North Dakota State University

1927/1932

1932

ESC

Elec. Engr

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD WORK

DATES ATTENDED

DEGREE

MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:

Elks Lodge

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:

Water sports - boating, water skiing, etc.

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)

FIRM	LOCATION	DATES		POSITION(S) HELD
		FROM	TO	
Ford, Bacon, & Davis	New York, N. Y.	2/48	1/49	Contract Engineer
Ordnance Ammo Comd	Joliet, Ill.	1/49	2/51	Industrial Engineer
U. S. Army	Joliet, Ill.	2/51	8/52	Dep Ch, Mfg Div
U. S. Army	Joliet, Ill.	8/52	11/52	Ammo Officer
U. S. Army	Yokohama, Japan	11/52	2/53	Ch, Industrial Div
Ordnance Ammo Comd	Joliet, Ill.	3/53	7/58	Dep Ch, Mfg Div
Army Ord Missile Comd	Huntsville, Ala.	7/58	1/63	Ch, Programs Div

Sat IB Prog, NASA/MSFC Huntsville, Ala. 1/63 1/69 Ch, Prog Control C
 Apollo Applications Program
 Apollo Telescope Mount, PM Huntsville, Ala. 1/69 Present Dep Ch, ATM Proj

16. TECHNICAL PAPERS (name of publication and title):

None

17. PATENTS (name and date):

None

18. DATE OF ENTRY INTO MILITARY SERVICE		19. DATE OF SEPARATION		20. GRADE OR RATE	
January 1941 February 1951		December 1946 November 1952		Ordinatee Criminal	
D. RANK OR GRADE UPON SEPARATION:		E. RESERVE STATUS (Component):		F. RANK OR GRADE IN RESERVE:	
Major		Discharged		N/A	
9. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPER, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU:					
Huntsville New, Huntsville, Alabama Huntsville, Times, Huntsville, Alabama					

20. REMARKS (facts not covered above, such as awards, decorations, or citations you wish mentioned):

. . .
 . . .
 . . .

GEORGE C. MARSHALL PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC INFORMATION)
 PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS:
 Harold K. Katz
 Sunset Drive, Box 6, Glens Falls, N.Y.

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, Department, Title, Street, City, State, Zip):
 Deputy Chief, Planning Division, U.S. Army
 Bldg 4200, Rm 11, WDC, DC 20315

6. A. PARENTS:
 MOTHER LIVING *No*
 FATHER LIVING *No*

B. NAME OF PARENTS:
 —

7. A. MARITAL STATUS:
 SINGLE
 MARRIED

B. WIFE'S MAIDEN NAME:
 Louise D. Katz

C. NAME AND ADDRESS OF THE MARRIAGE OFFICER:
 Deacon

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 David C. Katz
 Industrial Engineer, Coca Cola Corp, Atlanta, Ga

9. HIGH SCHOOL(S) ATTENDED: LOCATION: YEAR GRADUATED:
 Glens Falls High School, Glens Falls, N.Y. Glens Falls N.Y. 1927

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED: DATES ATTENDED: DEGREE RECEIVED: YR.
 Union College, Schenectady, N.Y. 1927-1931 B.S. in EE

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK: DATES ATTENDED: DEGREE RECEIVED: YR.
 —

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 Curator Club, various associations
 Alabama Industrial Association

13. EXTRACURRICULAR ACTIVITIES (list & type) such as public office, civic work, hobbies or sports:
 Automobile Club, U.S. Army Reserve, U.S. Army Reserve, U.S. Army Reserve

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order): FIRM: LOCATION: DATES: POSITION/TITLE:
 U.S. Army, Security Dept, Gettysburg, Pa. 1942-1945 Lt. Colonel
 ARMA, Huntsville, Ala. 1945-47 Lt. Colonel

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
 None

16. TECHNICAL PAPERS (name of publication and title):
 None

17. PATENTS (name and date):
 None

18. A. DATES OF ENTRY INTO
MILITARY SERVICE

Active duty
1942-1947

Returned to Reserve
status 17 Nov 1947

BR

Army

D. RANK OR GRADE UPON SEPARATION

Lt Col

Army

RANK OR GRADE IN RESERVE

Lt Col

19. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYERS, SCHOOLS, OR AGENCIES WHICH WOULD BE INTERESTED IN NEWS AND BULLETINS WHICH WOULD BE INTERESTED IN NEWS AND BULLETINS

Advertiser, Lyons, Montrossville,
Union College alumni office

20. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

RECEIVED

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040

CURRENT: 2/69

J. E. KINGSBURY

Mr. J.E. Kingsbury is Chief of the Materials Division, Propulsion and Vehicle Engineering Laboratory, at the George C. Marshall Space Flight Center in Huntsville, Alabama.

Established in 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Mr. Kingsbury has been active in the research and development of the broad spectrum of materials, both metallic and non-metallic. He has authored many technical papers on materials which have been published in the literature as well as over 60 classified papers. He was contributing author to the "Handbook of Astronautical Engineering" published by McGraw-Hill in 1962. He is an associate fellow in the American Institute of Aeronautics and Astronautics and a member of The Society For Aerospace Materials and Process Engineers.

Mr. Kingsbury was born in Wilkes-Barre, Pennsylvania. He is married to the former Alma Brookshire of Guntersville, and the couple has two children: Daniel, 11, and David, 10

Public Affairs Office
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National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: June 1967

HERMANN W. KROEGER

Hermann W. Kroeger, Deputy Director of Astrionics Laboratory, received his Bachelor of Science degree in mechanical engineering from the Institute of Applied Technology, Koethen, Germany, in 1932. Since his graduation he has been successively, until 1945, an assistant professor for internal combustion engines, a test engineer and test pilot for the German Air Force, and was in charge of flight testing of rocket fighters and guided missiles at Peenemuende. He spent seven years as a test engineer at Wright Air Development Center where he was engaged in flight testing optical amplifiers, bombing systems by photogrammetric methods, and new bomb shapes. While there he also made studies on fluid dispersion of napalm bombs. In November, 1954, Mr. Kroeger joined the Technical and Scientific Staff of Astrionics Laboratory.

Mr. Kroeger was born on January 23, 1908, and became a naturalized American citizen in January 1958.

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National Aeronautics and Space Administration
Huntsville, Alabama 35812

CURRENT: June, 1966

Phone: A/C 205, 876-6074 or 876-6988

WERNER R. KUERS

JOB TITLE : Director of the Manufacturing Engineering Laboratory

EDUCATION : Master of Science degree in mechanical engineering from the Technical University of Berlin, Germany.

EXPERIENCE : Engineer Kuers came to the Marshall Space Flight Center on July 1, 1960, when the Development Operations Division of the Army Ballistic Missile Agency was established as the nucleus for the newest center . . . MSFC. Mr. Kuers had been a member of the Army Ballistic Missile Agency staff since its activation on February 1, 1956. He came from the Redstone Missile Project of Redstone Arsenal where he was in charge of process engineering for six years. Prior to that time he was assigned to the Ordnance Research and Development Division of Fort Bliss, Texas, for five years in Ballistic Missile Research. He had been a member of the Missile Development Center at Peenemuende, Germany, for three years and a member of the V-2 missile team.

ACHIEVEMENTS: Process Development, Manufacturing Engineering, and Research of Fabrication have been the major activities and areas where his results have been major achievements of the missile age.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama

Telephone: 876-6074 or 876-6988

CURRENT: August 1965

DR. JOACHIM P. KUETTNER

Dr. Kuettner was born in Breslau, Germany, on September 21, 1909.

He received his doctorate in law at the age of 21 at the University of Breslau, and, after studying in Darmstadt, Germany, and Helsinki, Finland, his doctorate in physics and meteorology at the University of Hamburg in 1939.

During World War II, Dr. Kuettner tested, as flight test engineer and test pilot and later as head of a flight test department, advanced airplanes including the six-engine Messerschmitt "Gigant" and the manned version of the V-1 for the German Aircraft Industry (Arado, Messerschmitt, Zeppelin). From 1945 to 1948 he was Director of the Zugspitze Mountain Observatory. During this time he also received his "Doctor Habil" at the University of Munich.

Dr. Kuettner came to the United States in December 1948 and joined the Air Force Cambridge Research Center. He was in charge of geophysical flight research using jet aircraft and high-altitude sailplanes. Specifically, he was responsible for the "Mountain Wave - Jet Stream Project" and atmospheric electricity research and for the planning of geophysical flight facilities. Since 1956, he is Scientific Director of the Mt. Washington Observatory. In 1958, he joined the Army Ballistic Missile Agency at Huntsville, Alabama, as Director of the Agency's efforts in Project

Mercury. In 1960, he transferred to NASA's Marshall Space Flight Center as Chief of the Mercury-Redstone Project which resulted in the ballistic space flights of Alan Shepard and Virgil Grissom. He was in charge of the Saturn-Apollo Systems Integration prior to appointment to his present position as Deputy Director of the Saturn/Apollo Systems Office, recently renamed as the Technical Staff of Research and Development Operations.

Dr. Kuettner is MSFC executive secretary of the Apollo Panel Review Board, supervising the activities of the Apollo technical Inter-Center panels.

As chief of the new In-Flight Experiments Office, he is also responsible for the planning and implementation of scientific, technological and biomedical experiments.

Furthermore, he is chairman of the Crew Safety Panel, which, jointly with MSC, establishes and defines vehicle systems ensuring the safety of the astronaut crew during the powered phase of the Apollo flights.

Dr. Kuettner is Senior Representative of the Marshall Space Flight Center on the Apollo Launch Operations Panel, and a member of the Experiments Review Board and of the Apollo Joint Flight Operations Group.

He has published many papers in the field of aeronautics, meteorology and astronautics. In addition, he has given technical lectures in many foreign countries such as France, England, Australia, Germany, Spain, Poland, Scandinavia, Switzerland, Argentina and others.

MORE

Dr. Kuettner has flown sailplanes to altitudes of over 47,000 ft. and established several national and international records. His awards include the Lilienthal Medal of the Federation Aeronautique Internationale, FAI (Paris 1956); the OSTIV Plaque of the Organization Scientifique et Technique Internationale du Vol a Voile (Holland 1958); the Tuntland Award of the Soaring Society of America (1953 and 1957) and the FAI Diamond C Award (1955).

Dr. Kuettner is scientific chairman of the International Scientific Gliding Organization, OSTIV; chairman-elect of the AIAA Committee on Atmospheric Environment and Associate Director of the Mt. Washington Observatory. He is a member of the American Geophysical Union, the American Institute of Aeronautics and Astronautics, the American Meteorological Society, the American Soaring Society, the German Aeronautical Society, and the German Rocket Society.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040

CURRENT: 2/69

DR. WILLIAM R. LUCAS

Dr. William R. Lucas is the Director of Program Development at the Marshall Space Flight Center near Huntsville, Alabama. He was formerly the Director of the Center's Propulsion and Vehicle Engineering Laboratory (recently renamed Astronautics Laboratory).

Dr. Lucas joined the rocket research and development team in Huntsville in June 1952 when he became a member of the Guided Missile Development Division staff of Redstone Arsenal. A specialist in materials, he eventually became Chief of the Materials Branch of that organization. When the GMDD became the nucleus for the Army Ballistic Missile Agency, Dr. Lucas was transferred to the new Agency when it was established on February 1, 1956. He served as Chief of the Materials Branch of the Development Operations Division of the ABMA until July 1, 1960. On that date the DOD became the nucleus for establishing the Marshall Space Flight Center and Dr. Lucas transferred with that group to the new organization.

The Marshall Center, established in 1960 as field center of the National Aeronautics and Space Administration, provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital

MORE

Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Among his accomplishments as a member of ANMA, Dr. Lucas directed the materials aspect of the successful nose cone development of the Army's Jupiter missile.

Born in Newbern, Tennessee, March 1, 1922, he was educated in Tennessee schools. Dr. Lucas holds a Bachelor of Science degree in chemistry from Memphis State College and Master of Science and Doctorate in metallurgy from Vanderbilt University, Nashville, Tennessee.

Dr. Lucas served as a Naval officer during World War II. Most of his professional experience has been in materials engineering. His specialties are metallurgy and inorganic chemistry, particularly the study of environment effects on materials. In addition to the extremes of temperature, corrosion, and other chemical effects, he has been concerned in recent years with the effects of the space environment on materials. He has several publications and two patents.

Dr. Lucas is a member of the American Society for Metals, the American Chemical Society, American Institute of Aeronautics and Astronautics, and Sigma Xi. He has served in practically all of the offices of the North Alabama Section of the American Chemical Society including chairman; he has served on the Board of Directors of the Alabama Section of the American Institute of Aeronautics and Astronautics and has served recently as a member of the American Institute of Aeronautics and Astronautics Technical Committee on Materials; he has served as a member of a national committee of the American Society for Metals. He is a member of the Advisory and Technical Board of the Southeast Regional Section of the American Astronautical Society.

MORE

LUCAS, Dr. William R.

Page 3 of 3 Pages
Current: 2/69

He serves on the National Bureau of Standards Cryogenics Division Advisory Panel. He represents the George C. Marshall Space Flight Center on the NASA Research and Technology Advisory Sub-committee on Materials.

Dr. Lucas was awarded the NASA Medal for Exceptional Scientific Achievement in Washington, D. C., October 15, 1964. He received the Hermann Oberth Award from the Alabama Section of the American Institute of Aeronautics and Astronautics on November 5, 1965, for outstanding individual contributions to the fields of aeronautics and astronautics. On January 13, 1969, Dr. Lucas was awarded NASA's Exceptional Service Medal for his contribution to the Apollo 8 lunar orbital mission.

The son of Mrs. William S. Lucas of Newbern, he is married to the former Miss Polly Torti of Memphis and the couple has three children: Donna Jeanne, 15; William R., Jr., 13; and Mike, 11.

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: *Mandel* 3. PLACE AND DATE OF BIRTH: *2*

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): *Dr. George C. Marshall Space Flight Center* 5. DATE BEGAN WORK AT MSFC: *1960*

6. A. PARENTS: MOTHER LIVING FATHER LIVING B. NAME OF PARENTS: C. ADDRESS OF PARENTS:

7. A. MARITAL STATUS: SINGLE MARRIED B. WIFE'S MAIDEN NAME: *Deborah S. Mandel* C. NAME AND ADDRESS OF WIFE'S PARENTS:

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation): *Deborah S. Mandel, age 17, living at home*

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
<i>High School</i>		

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
<i>University of Tennessee</i>	<i>1958-1960</i>	<i>1960</i>	<i>B.S.</i>	<i>Physics</i>

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
<i>University of Tennessee</i>	<i>1960-1961</i>	<i>Ph.D.</i>	<i>Physics</i>

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS: *Quarterly Report*

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order) FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
<i>General Electric</i>	<i>Dayton, Ohio</i>	<i>1955-1957</i>	<i>Research Engineer</i>
<i>MSFC, Space Station</i>	<i>Marshall Space Flight Center</i>	<i>1960-1961</i>	<i>Research Engineer</i>

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN: *High speed flow & turbulence*

16. TECHNICAL PAPERS (name of publication and title):

17. PATENTS (name and date): *Registration of ...*

2. Carl H. Mandel, Rt. 2, Box 254, Madison, Ala.
3. Leipzig, Germany; 22 Nov. 1908
4. Chief, Inertial Sensors & Stabilizers Division, Astrionics Laboratory, MSFC, Bldg. 4487, 876-5330
5. 1960 (mass transfer).
6. deceased

- 7 b. Gertrude S. Lungershausen
8. Peter Krome (student at home) - 29 years old
Eva Virgin, Union City, Tenn. - 23 years old
Henning Krome, 3514 Lois Ln, Huntsville, Ala. - 26 years old *Eng.*
Regina Mandel (student at home) - 17 years old
9. Trebbin - suburb of Berlin - 1928
10. Hoehere Tech., Berlin (night course) 1928 1932 Eng. Mech.
11. Hoehere Tech, Berlin (daytime course) 1933-1934 Eng. Elect.
12. American Rocket Society
13. Phtography and gardening.
14. Siemens & Haeske - Berlin, Germany - 1928-1933 - Foreman
Kreiselgeraete GMBH - Berlin - Zehendorf - 1934-1945 - Group leader
Army, R&D - Ft. Bliss, Texas & Huntsville - 1946 - 1960 - Section chief
NASA, MSFC, Gyro & Stab. - Huntsville - 1960-present - Division chief
15. High precision gyros and stabilizers
- 16.
17. Optical alignment of Saturn missile - 1965

Public Affairs Office
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National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: 11/68

HANS H. MAUS

Hans H. Maus is Director of the Executive Staff at the George C. Marshall Space Flight Center, **Huntsville, Alabama.**

Marshall is a field center of the National Aeronautics and Space Administration. Its main responsibility is to provide the large Saturn rockets for use in the nation's manned space flight program. In addition, it is charged with designing, building and testing the next generation of manned spacecraft following the Apollo lunar landing effort. The follow-on program, known as Apollo Applications, calls for a cluster of "payloads" to be brought together in earth orbit to form an early space station. The major spacecraft elements for which MSFC is responsible are the Saturn I Workshop, Apollo Telescope Mount, Multiple Docking Adapter, and Airlock Module.

Maus came to Huntsville in January 1950 when the German-born rocket research and development team was moved from Ft. Bliss, Texas, to Redstone Arsenal.

A native of Germany, Maus is a graduate of the Technical University of Darmstadt. He holds a Master of Science degree in mechanical engineering.

Maus was Director of the Fabrication and Assembly Engineering Division from 1950 until June 19, 1961. He was Director of the Lunar Program Planning Office from June 1961 until February 1962, when he was appointed Director of the Central Planning Office. He became Director of the Executive Staff in October 1963.

MORE

The Fabrication and Assembly Engineering Division was, from time to time, considered a part of various Army elements such as the Guided Missile Development Division (1950-1956), and the Army Ballistic Missile Agency (1956-1960).

Maus has been a member of the George C. Marshall Space Flight Center's research and development team since the Center was established on July 1, 1960. He was a member of the Missile Development team in Peenemuende, Germany, prior to coming to the United States. The von Braun team was responsible for building the V-2 missile.

Maus' extensive experience in guided missile development and production engineering has been highlighted by numerous and exceptional accomplishments in the areas of manufacturing methods development, process automation, assembly, and tooling concept development.

As a result of his outstanding service, he was presented the Exceptional Civilian Service Award by the Secretary of the Army.

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March 31, 1969

PLEASE PRINT OR TYPE

1. NAME & HOME ADDRESS: Fletcher Brooks Moore 179 Sherwood Dr. SE (Huntsville) Heiberger, Alabama
 2. PLACE AND DATE OF BIRTH: June 15, 1926
 3. DATE BEGAN WORK AT MSEC: July 1, 1960
 Director, Astrionics Laboratory
 Bldg. 4487 453-1412 (when move is made to new office)

4. A. PARENTS: MOTHER LIVING FATHER LIVING No
 B. NAME OF PARENTS: Amzi Wallace Moore (father) Mary Elizabeth May Moore (mother)
 C. ADDRESS OF PARENTS: Marion, Alabama
 7. A. MARITAL STATUS: SINGLE MARRIED
 B. WIFE'S MAIDEN NAME: Margaret Marian Foreman
 C. NAME AND ADDRESS OF WIFE'S PARENTS: Father deceased Mother: Mrs. Elizabeth Perry Foreman 1904-537 Fifth Court, Panama City, Fla.

8. NAMES AND AGES OF CHILDREN (if out of school, place of residence & occupation):
 Larry Brooks Moore 10-10-57 Ronald Howell Moore 4-22-59

HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Perry County High School	Marion, Alabama	1944

NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Southwestern La. Institute, Lafayette, La.	1944-1945			Gen. Engr.
Tulane Univ., New Orleans, La.	1945-1946			Elec. Engr.
Alabama Polytechnic Inst., Auburn, Ala.	1946-1948	1948	BS/EE	Elec. Engr.

NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR
Georgia Tech, Atlanta, Ga.	1948-1949	MS/EE	Electronic Engineering

9. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 Assoc. Fellow in AIAA Works with Boy Scouts and Indian Guides

10. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:
 Plays basketball and softball on the MARS teams, collects Indian artifacts, Sings

PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
MSEC, Huntsville, Ala.		Huntsville	July 1, 1960 to present	Chief, Navigation Br. Chief, Guidance and Control Division
ADMA, Redstone Arsenal, Ala.		Huntsville	March 1958 to July 1, 1960	Eng. Staff Chief, Section 3, 4, 5
U.S. Navy Mine Station		Panama City, Fla.	Oct. 1950 to March 1957	Acoustic Scientist

11. SPECIALIZED IN:
 Control systems for multi-stage space vehicles; missile guidance systems, Juno I, Juno II. (MSEC and ADMA)
 Jupiter, Saturn, etc.
 Description of test equipment utilized in work: ...
 Reference: ...

See Item 20. on reverse side.

Signature (name and date):

Mark

D. DATE OF ENTRY INTO MILITARY SERVICE	A. DATE OF SEPARATION	E. BRANCH OF SERVICE (Army, Navy, AF, etc.)
July 1, 1944	June 7, 1945	Navy
B. RANK OR GRADE UPON SEPARATION:	C. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
Midshipman	None	None

19. NAMES AND ADDRESSES OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYER PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU:

Marion Times-Standard Centreville Press
 Marion, Alabama Centreville, Alabama

20. REMARKS (Data not covered above, such as awards, decorations, or citations you want mentioned):

(continued from item 18. - List of Reports, Papers, etc.)

Saturn Ascending Phase Guidance and Control Techniques -(coauthor)
 Jet Control of Missiles
 Guidance and Control Systems for Space Carrier Vehicles -(co-author)
 Applications of Redundancy in the Saturn V Guidance and Control System - (co-author)

NAV-618 February 14, 1950

PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 876-6988

CURRENT: August 1968

SAVERIO F. MOREA

Saverio F. Morea is the Deputy Manager of the Engine Program Office at NASA's George C. Marshall Space Flight Center in Huntsville, Alabama. He is also currently acting J-2 Engine Project Manager.

The Marshall Center is a field center of the National Aeronautics and Space Administration. As such, the center provides space launch vehicles and payloads for the nation's space exploration program, and conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Born in New York City, N.Y., on January 23, 1932, Morea is a graduate of Brooklyn Technical High School and City College of the City of New York. He holds a bachelor of science degree in mechanical engineering. Further post graduate study in mechanical engineering has been done at the University of Alabama, Huntsville.

Morea is president of the Community Concert Association. He is a member of the American Institute of Aeronautics and Astronautics, and Aircraft Owners and Pilots Association. He enjoys philately and flying.

Upon graduation from City College in 1954, Morea accepted a position with North American Aviation in Downey, California. In 1955, he was

MORE

called into the U. S. Army and stationed at Redstone Arsenal, Alabama. Specifically, he worked with the research and development team in the Army Ballistic Missile Agency. When he returned to civilian status in 1957 Morea accepted a position with ABMA and remained in Huntsville. The Development Operations Division of ABMA became the nucleus for the Marshall Space Flight Center in 1960 and Morea transferred with that group to become a member of the MSFC staff.

The son of Mr. and Mrs. Dominico Morea of New York City, N.Y., he is married to the former Miss Anglea Maria Fiore, also of New York City, and the couple has two children: Gail Eileen, 14; and Lorraine Carolyn, 6.

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Public Affairs Office
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National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042 or 453-0043

CURRENT: 5/69

DR. WILLIAM A. MRAZEK

Assistant Director for Engineering, Program Management

EDUCATION: Diploma in Engineering (MS degree) Technical University, Bruenn, Germany

DATE AND PLACE OF BIRTH: October 20, 1911, Lukavac, Austria-Hungary

AWARDS AND HONORS: 1959, received U. S. Army decoration for exceptional service

Dec. 14, 1962, received Honorary Doctor's degree from Auburn University, Auburn, Alabama

October 1963, received NASA Medal for Outstanding Leadership

January 13, 1969, received NASA's Exceptional Service Award for his contribution to the Apollo 8 mission.

MISSILE EXPERIENCE:

After graduation, Dr. Mrazek was employed as project engineer with the Solvay Works where he participated in the expansion planning of production and power facilities. Subsequently he was actively engaged in the development of the V-2 and AA rocket "Wasserfall" at Peenemuende. In both projects he was responsible for supervision and performance of parameter and project studies and design of instrumentation cages, hydraulic servo-control systems, and complete missile layouts.

In 1946, Dr. Mrazek came to the United States first as a member of the Sub-Office, Ordnance Research and Development Division at Fort Bliss, Texas; later, upon transfer of this office to Redstone Arsenal he served in a dual capacity as Chief of the Layout and Assembly Section and Deputy Director of the Structures and Mechanics Laboratory. In April 1956, he was appointed Director

MORE

of Structures and Mechanics Laboratory. In this capacity he directed research and development in the fields of structures, propulsion, mechanics, chemistry, materials and design integration. Dr. Mrazek's administrative and technical talents have been instrumental in the development of the Redstone, Jupiter, Jupiter C, Juno II, Pershing, and Mercury Redstone Missile Systems and in the outstanding progress made thus far on presently assigned Saturn launch vehicle systems.

In July 1960, when the Development Operations Division of the Army Ballistic Missile Agency became the nucleus for establishment of the George C. Marshall Space Flight Center, Dr. Mrazek transferred with Dr. von Braun's research and development group to the new Center.

The Marshall Center is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research and advanced studies for space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

In March 1964, Dr. Mrazek was appointed Chief Engineer, Saturn Project, Industrial Operations. Until this appointment he was Director of the Propulsion and Vehicle Engineering Laboratory of the Center. On June 3, 1965, he was appointed Assistant Director for Engineering, Industrial Operations. In February 1969 Industrial Operations became Program Management.

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Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042 or 453-0043

CURRENT: 5/69

ERICH W. NEUBERT

Mr. Erich W. Neubert is Associate Deputy Director, Technical, of the National Aeronautics and Space Administration's George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall Center, established on July 1, 1960, provides heavy launch vehicles and scientific payloads for the nation's civilian space program, and conducts related research and studies for advanced transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Mr. Neubert was born in Berlin, Germany, on January 19, 1910. He was graduated from the Institute of Technology at Darmstadt, Germany, in 1936 with a Master of Science degree in electrical engineering. From 1936 to 1939 he was employed by the Siemens-Schuckert Corporation as a design and consulting engineer. He joined the staff of the German Guided Missile Center in Peenemuende in October 1939 and has been in guided missile research, development, and production since that date.

Mr. Neubert came to the United States under Army contract in 1945 and became an American citizen on November 11, 1954. He was engaged in guided missile projects at White Sands, New Mexico, and Fort Bliss, Texas. In 1950 the Fort Bliss activities were transferred to Redstone Arsenal, Huntsville, Alabama, and Mr. Neubert became Deputy Chief, Guidance and Control

MORE

NEUBERT, Erich W.

Page 2 of 2 Pages
CURRENT: 5/69

Laboratory, Guided Missile Development Division. He was appointed Director of the Systems Analysis and Reliability Laboratory in 1952, and remained in that position until July 1, 1960, with the Army Ballistic Missile Agency. At that time the Army personnel on space projects were transferred to the newly established Marshall Space Flight Center and Mr. Neubert was appointed to his present position.

Mr. Neubert was named as chairman of the MSFC Safety Board in June 1967.

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Public Affairs Office
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Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: 4/69

DAVID H. NEWBY

David H. Newby is the Director of Administration and Technical Services at the George C. Marshall Space Flight Center near Huntsville, Alabama. Prior to this assignment, Mr. Newby was the Center's Associate Deputy Director, Administrative.

Marshall Center was established on July 1, 1960, as a field center of the National Aeronautics and Space Administration. As such, it provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Application Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar scientific experiments.

Born in Chickamauga, Georgia, Newby attended primary and high schools in Birmingham, Alabama. He received a Bachelor of Science degree in electrical engineering from Georgia Institute of Technology in 1942.

Following graduation, Newby joined the National Advisory Committee for Aeronautics, the predecessor of NASA, at the Langley Research Center,

-more-

DAVID H. NEWBY

Langley Field, Virginia. In the instrument research division he developed instrumentation for aeronautical research in wind tunnels and in research aircraft.

In 1951, Newby joined the staff of the U. S. Army Ordnance Corps at Redstone Arsenal in Huntsville. As chief of the Test Evaluation Laboratory, he was engaged in rocket and missile testing until his appointment to the National Aeronautics and Space Administration staff in 1959. As the NASA representative to the Army Ordnance Missile Command, he was one of the principals in the transfer of the von Braun team from the Army to NASA.

Newby is an Associate Fellow of the American Institute of Aeronautics and Astronautics, a member of the American Association for Advancement of Science, a member of the American Society for Public Administration, past president of the Tennessee Valley Post of the American Ordnance Association, and the Rotary Club.

He is married to the former Majorie Robinson of Birmingham and the couple has two children, Donna and David.

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
National Aeronautics and Space Administration
Public Information Office
Huntsville, Alabama

CURRENT: June 1962

Phone: 876-0210 or 876-0219

NAME: Max E. Nowak

DATE AND PLACE OF BIRTH: Zeith, Germany on September 27, 1908

BECAME AMERICAN CITIZEN: November 11, 1954

JOB TITLE: Chief of Assembly Engineering Branch
Manufacturing Engineering Division

EDUCATION: Engineer Nowak received his Baccalaureate
of Science in Mechanical Engineering from
the Technical Institute of Leipzig, Germany.

EXPERIENCE: Engineer Nowak came to the Army Ballistic
Missile Agency when it was activated from
the Engineering and Manufacturing Section
of the Redstone Missile Project where he
had served two years as Mechanical Engineer
and four years as Chief of Test Service Section.
Previously he was assigned to the Firing
Laboratory of the Ordnance Research and
Development Division of Fort Bliss for four
years.

Mr. Nowak formerly was Chief of Test Facility Branch of the Missile Development Center at Peeneumuende for six years. Earlier he served as Production Manager with Karl Dickow Machinery on the H₂O₂ pump development for two years. Prior to that he was with Dromos Werke at Leipzig for three years as Production Manager on glider and light aircraft transports. On July 1, 1960, Mr. Nowak was transferred en masse to the George C. Marshall Space Flight Center to fill his present position.

ACHIEVEMENTS:

Awarded Sustained Superior Performance in 1958.
Awarded Sustained Superior Performance in 1960.
Awarded Outstanding Performance Award in 1960.

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35892

Telephone: Area Code 256, 452-1342 or 452-0013 CURRENT: 4/69

MAJOR GENERAL EDMUND F. O'CONNOR

Major General Edmund F. O'Connor, who is assigned to NASA through a special personnel exchange arrangement with the Department of Defense, is the Director, Program Management, at the George C. Marshall Space Flight Center, Huntsville, Alabama.

In this position, General O'Connor is responsible for the technical and administrative management of Saturn launch vehicle programs and that portion of the Saturn/Apollo Applications Program assigned to Marshall Space Flight Center. These include the Saturn IB and Saturn V launch vehicles, the Y-1, J-2, and H-1 engines, and such spacecraft as the Skylab Workshop and Apollo Telescope Mount of the Apollo Applications Program. In this capacity he has managed the total design, development, manufacture, checkout, test, and flight of these vehicles and experiments, their quality, reliability, and successful performance of assigned mission objectives. He is responsible for directing the industrial effort and utilizing the NASA-MSCFC technical effort that supports these programs. He also is responsible for the management of the various government-owned, contractor-operated facilities in New Orleans, and Mississippi Test Facility in Hancock County, Mississippi.

-more-

O'CONNOR, Major General Edmund F.

2

Before he came to Mونتville in November 1964, General O'Connor was the Deputy Director of the Ballistic Systems Division, U. S. Air Force Systems Command, Norton Air Force Base, California. In this assignment, he was responsible for management of the Mobile Mid-Range Ballistic Missile (M-RBM) program.

Born on March 31, 1922, in Fitchburg, Mass., General O'Connor was commissioned a second lieutenant in the Army upon graduation in 1944 from the U. S. Military Academy at West Point. He holds a master's degree in military engineering. Among the many schools General O'Connor has attended are the Air War College, Air Force School, and the Air Force Institute of Technology. He holds a bachelor of science degree in aeronautical engineering.

A command pilot on flying status, General O'Connor served in World War II, in Japan, and the Korean conflict.

During his Air Force career General O'Connor has held various research and development and weapon system management positions in the Air Materiel Command, Air Force Systems Command, and USAF Headquarters, Washington, D. C. He was responsible for the development, testing, and overall management of the M-RBM weapon system. General O'Connor also served as Chief of the Defense Branch, Weapon Systems Division, Directorate of Procurement and Production, and was responsible for determining air defense and interception requirements and managing the acquisition of weapon

UNCLASSIFIED

O'CONNOR, Major General Edmund T.

3

system; the results of his efforts contributed to development of the B-52, F-105, and F-4E weapon systems.

He holds the Air Medal with seven Oak Leaf Clusters, the Distinguished Flying Cross, Commendation Ribbon with Oak Leaf Cluster, and the Distinguished Unit Citation. In October 1966 he was awarded the NASA Medal for Outstanding Leadership; and on January 13, 1969, General O'Connor was awarded NASA's Exceptional Service Medal for his contribution to the Apollo 8 lunar orbital mission.

General O'Connor was promoted to brigadier general on June 1, 1965.

His promotion to major general occurred on August 1, 1968.

General O'Connor is married to the former Miss Rita Hogan of Highland Falls, New York, and the couple has four children: William, born in November 1946, a student at the University of Colorado; Patricia, born in October 1949; Michael, born in October 1952; and Terence, born in November 1955.

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National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040

CURRENT: 4/69

HANS G. PAUL

Hans G. Paul is chief of the Propulsion Division at NASA's George C. Marshall Space Flight Center near Huntsville, Alabama. The Propulsion Division is a segment of the Center's Astronautics Laboratory.

Born in Mainbernheim, West Germany, on April 15, 1909, Paul was educated in that country. He is a graduate of Humanistisches Gymnasium in Wuerzburg; the Institute of Technology, Munich; and the Institute of Technology in Hannover. Interim study was done at the Institute of Technology in Berlin-Charlottenburg. Paul holds both bachelor and master of science degrees in mechanical engineering.

Research fields he has specialized in are: turbo-machinery, rocket propellant feed system, thermal analysis, re-entry heat protection, cryogenic engineering, and rocket propulsion. Among the technical papers he has authored or co-authored are the following: "Low Temperature Liquids as Coolant in Guided Missiles," published in the proceedings from the Cryogenic Engineering Conference held in Boulder, Colo., in 1954; "Nose Cone Re-entry Heating for Different Heat Protection Materials," published in the proceedings from the U. S. Army Science Conference held in West Point, N. Y., in 1957; and "A Review of Cryogenic Technology Aspects in Space Flight." Published in the proceedings from the International Cryogenic Engineering Conference held in Kyoto, Japan, in 1967. Paul is a member of the International Institute of Refrigeration, Commission I; Member of Executive Committee of Cryogenic Engineering Conference, a unit of the National Academy of Engineering.

MORE

Following receipt of his Master's degree in 1934, Paul remained at the Institute of Technology in Hannover to begin his engineering career. He was resident engineer and instructor on thermal engineering, turbines, and testing at the Institute. From 1936 until 1938, prior to joining the research and development group at Peenemunde, Paul was associated with Krupp-Germania in Kiel and Dyckerhoff A. G. in Amoenburg. He came to the United States in 1945 with the von Braun group which has served as the nucleus for forming the Guided Missile and Rocket Research and Development Center, the Army Ballistic Missile Agency, and the Marshall Space Flight Center all at Redstone Arsenal, Alabama.

Paul is married to the former Miss Ingeborg Hertha Rahn and the couple has two children: Barbara, 20 and Hans 15.

PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: July 1968

RAYMOND W. PISANI

Mr. Raymond W. Pisani is Deputy Manager, in the Planning and Resources Office of Industrial Operations at NASA's George C. Marshall Space Flight Center, Huntsville, Alabama.

A native of New York, Mr. Pisani received his education at Adelphi Academy and New York University majoring in business administration.

He joined the research and development team in Huntsville in 1956 and transferred to the Marshall Center in April 1961.

The George C. Marshall Space Flight Center, established in July 1961, is responsible for research and development of space vehicles for the peaceful exploration of space.

Mr. Pisani is married and the couple has three children.

#

Biographical Sketch

Name and Address:

Lester E. Powell
9830 Dortmund Drive, SE
Huntsville, Alabama 38103

Date of Birth:

August 25, 1930

Place of Birth:

Bessemer, Alabama

Present Job Title and Address:

Resident Manager
IBM Corporation
Space Guidance Center
150 Sparkman Drive
Huntsville, Alabama 35807

Date Employed by MSFC:

January 8, 1962

Name of Parents:

Father - Homer L. Powell
Mother - Freeda L. Powell

Name of Wife and Date of Birth:

Charlette R. Powell - Born November 11, 1932

Name and Ages of Children:

Maren Ann	-	Age 13
Steven William	-	Age 11
Quincy Clay	-	Age 10
Tracy Lynn	-	Age 6

Name of College Attended:

University of Alabama --- Class of 1950

Membership in Lodges and Professional Societies:

None

Significant Work Experience before MSFC:

From June 1958 to May 1960:- Design Engineer at Ford Instrument Company in the Guidance Research Section in Long Island, New York. Transferred to Huntsville, Alabama, and was active in the design of the Jupiter Guidance and Control Equipment.

From May 1960 to August 1960: Astro Space Engineering Corporation, Huntsville, Alabama. Design Engineer. Participated in the design of small missile guidance systems.

From August 1960 to January 1962: Bendix Corporation, E. P. Division, Teterboro, New Jersey. Design Engineer. Participated in the design of PERSHING automatic Ground Checkout Equipment.

Titles of Technical Papers Presented or Research Work:

None

Military Service and Dates:

Navy - January 5, 1949 to January 4, 1950.

Name and Address of Newspapers that would be Interested in News:

Birmingham News, Birmingham, Alabama.
Huntsville Times, Huntsville, Alabama

Photograph:

Attached

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042

CURRENT: 1/69

DR. EBERHARD F. M. REES

Dr. Eberhard F. M. Rees is Deputy Director, Technical, of the National Aeronautics and Space Administration's George C. Marshall Space Flight Center at Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. Established in 1960, it provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Dr. Rees was born on April 28, 1908, in Trossingen, Wuerttemberg, Germany. He received his technical education in Stuttgart and at the Dresden Institute of Technology. He was graduated from the latter institution in 1934 with the degree of master of science in mechanical engineering. He majored in thermodynamics, engine design (steam turbine, diesel engine, etc.) production engineering and technical plant management.

-more-

From 1934 until the outbreak of World War II Dr. Rees was assistant to the manager of a steel mill in Leipzig, Germany, with special task assignments in production planning and methods development, and in the construction of new plants. He was engaged in the development of new products and their introduction into plant production lines.

During World War II, Dr. Rees served as technical plant manager of the German Guided Missile Center in Peenemuende and, thus, has been in guided missile research, development, and production since 1940.

Dr. Rees came to the United States in 1945 and was assigned to Ordnance Research and Development, Sub-office (Rocket), at Fort Bliss, Texas. He also worked for several months at White Sands Proving Ground, New Mexico. Dr. Rees served as a consultant at both places on V-2 firings and on new projects in the guided missile field.

In 1950 the Fort Bliss activities were transferred to Redstone Arsenal, Huntsville, Alabama. Here, as deputy chief of the Guided Missile Development Division, Dr. Rees was a key figure in the technical planning, scheduling, and management of assigned projects, in particular the HERMES II Project (Ramjet), the REDSTONE and JUPITER (IRBM) missile programs, the Explorer Satellite and SATURN Project.

He was deputy director of the Army Ballistic Missile Agency's Development Operations Division from 1956 until 1960. He has had over 20 years' experience in the rocket and guided missile field. In recognition of the genius shown in helping maintain America's pace in missile development and bringing about the advent of the Space Age, Dr. Rees was

-more-

awarded the honorary degree of doctor of science by Rollins College at Winter Park, Fla., in February 1969. Having been a member of the American Rocket Society, now the American Institute of Aeronautics and Astronautics, since 1949, he became a Fellow Member in November 1959. He was also awarded the Exceptional Civilian Service Award by the Secretary of the Army in April 1959. In June 1960 he was awarded the Department of Defense Distinguished Civil Service Award by the Secretary of Defense, and he received the NASA Medal for Outstanding Leadership in October 1966. In 1967 he was awarded the AIAA Holger N. Toftoy Award for outstanding technical management and in January 1969 was awarded the Distinguished Service Medal from the Administrator of the National Aeronautics and Space Administration. On June 17, 1969, Dr. Rees was awarded a Fellowship by the American Astronautical Society.

Dr. Rees, who became an American citizen on November 11, 1954, was appointed Deputy Director of Research and Development of the George C. Marshall Space Flight Center on July 1, 1960. He held this position until his appointment on November 1, 1963, to Deputy Director, Technical.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: 876-6074 or 876-6988

CURRENT: June 1967

STANLEY R. REINARTZ

Stanley R. Reinartz is Deputy Manager of the Saturn/Apollo Applications Program Office at NASA's Marshall Space Flight Center in Huntsville, Alabama. He was previously Manager for the Phase C Payload Integration Contract and Manager of the Saturn IB/Centaur Program Office, Industrial Operations, MSFC.

Mr. Reinartz came to Huntsville in April 1957 as a lieutenant with the U. S. Army. He was research and development project officer with the Army Ballistic Missile Agency, Redstone Arsenal from April 1957 until December 1958. Upon discharge from the service he accepted a position with the Army Ballistic Missile Agency and transferred enmasse with the von Braun team when that group became the nucleus for the George C. Marshall Space Flight Center in July 1960.

A native of Kentucky, Mr. Reinartz was born in Ashland on April 21, 1933. He attended Ashland Senior High School before entering and graduating from Middletown Senior High School in Middletown, Ohio, in 1951. It was in Ohio that he earned his Bachelor of Science degree in mechanical engineering at the University of Cincinnati in 1956.

Mr. Reinartz is a member of Pi Kappa Alpha.

The son of Mrs. C. Herbert Reinartz and the late Mr. Reinartz, he is married to the former Miss Barbara Jean Rau of Middletown and the couple has three children.

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040

CURRENT: 2/69

Ludie G. Richard

Mr. Ludie G. Richard has been the Director of Systems Engineering, Research and Development Operations, Marshall Space Flight Center, since 1965. Prior to that time he was Assistant Director of the Astrionics Laboratory. He joined the von Braun research and development team in 1951.

Mr. Richard has been responsible for overall system engineering on all of Marshall Space Flight Center's current programs including the Saturn IB, the Saturn V moon rockets, and the Apollo Application projects.

He was recently awarded NASA's Exceptional Service Medal for his activities in this area on Apollo 8. He represented the United States in the International Aeronautics Federation meeting in Yugoslavia in 1967 in panel discussions with Russian scientists on System Engineering.

Mr. Richard has taken part in over fifty launchings including some of the earliest firings from Cape Kennedy, atomic testing in the Pacific, and, more recently, the launchings of Apollo 7 and Apollo 8.

Dr. von Braun recently announced the appointment of Mr. Richard as Deputy Director of Science and Engineering as a part of the overall reorganization of the Center. In this capacity he will be responsible to the Director of Science and Engineering for the management of the technical activities of Marshall's major laboratories and technical offices.

Born in Delta, Colorado, he received a degree in Electrical Engineering from the University of Colorado. Prior to coming to Huntsville, Alabama, he was associated with various Air Force guided missile and electronic programs.

He is married to the former Christine Ray and they have a daughter, Diana, age 15.

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: 5/68

DR. ARTHUR RUDOLPH

Dr. Arthur Rudolph is Special Assistant to the Director, George C. Marshall Space Flight Center, near Huntsville, Alabama. He was appointed to this position in May 1968 because of his impending retirement. He served as Manager of the Center's Saturn V Program from August, 1963 to May 1968.

The Marshall Center was established in 1960 as a field center of the National Aeronautics and Space Administration (NASA). The Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Dr. Rudolph served as Assistant Director for Systems Engineering in NASA's Office of Manned Space Flight (Huntsville Office) from December 1961 to August 1963. In that position he represented the full scope of concern of the systems engineering staff at the Headquarters, including vehicle design and performance studies, communication and tracking studies, and the special concern with reliability, test engineering, quality engineering, and the interfaces with ground support equipment and spacecraft—as applied

MORE

to major launch vehicles under development and those being considered at the level of feasibility and preliminary design. To this work he applied his extensive and intensive background.

Dr. Rudolph started his career in rocketry in Germany in 1930, working first with the Rocket Pioneer, Max Valier. Later, as independent inventor, he received patents for liquid fueled rocket engines and demonstrated successfully the operation of a liquid fueled rocket to the German Ordnance Department. In 1934 Dr. Rudolph joined the German Ordnance Department Staff, under Dr. Wernher von Braun, concentrating on development fabrication and testing and later on planning, organization and construction of the new rocket missile development plant—Peenemuende, where (1937-39) he served as Chief of the Development Fabrication (Labs) and from 1939-43 as Chief Planning Engineer and later as Technical Director of the pilot manufacturing and captive testing of the V-2 missile. In 1943, because of British bombing, he became responsible for establishing underground at Niedersachswerfen the mass production and testing of V-2's and was production manager until 1945.

In 1945 he was brought to the United States with more than 100 rocket experts in "Operation Paperclip," and from 1946-47 rebuilt the V-2 construction and test capabilities for the V-2 rocket system at White Sands Proving Ground. From 1947-49 he was Production Advisor to the Sub-office for Rockets of the Ordnance Department (at Fort Bliss, Texas) and worked as liaison engineer with the Solar Aircraft Company in San Diego in the development of the Hermes II missile; from 1949-50 he was liaison officer

MORE

at Redstone Arsenal, readying facilities for the Von Braun Group and what became the "Development Operations Division" of the Army Ballistic Missile Agency there.

From 1950-56, while serving in various special capacities as Technical Advisor to the Chief, National Procurement (later Industrial) Division, Redstone Arsenal, he advised on methods and requirements for manufacturing and testing guided missiles, acted as Chief, Quality Control Branch, and established the National Industrial Engineering Branch for missiles and rockets.

From 1956-58 he was Technical Director in charge of the development of the Redstone Missile Weapon System. (This was phased out in late 1960). From 1958 to July 1960 he was Project Director, Redstone and Pershing Missile Weapon Systems, and from July 1960 to December 1961 he was Director of the reconstituted Research and Development Operations Directorate within the Army Ballistic Missile Agency, Huntsville, Alabama.

Dr. Rudolph holds a Bachelor degree in mechanical engineering from the College of Berlin. He received his honorary Doctor of Science degree from Rollins College, Florida, in February 1959.

Dr. Rudolph served as Associate Director for Systems Engineering in the Office of Manned Space Flight (Huntsville Office) from December 1961 to August 1964. In that position he represented the full range of concerns of the systems engineering staff at the Headquarters, including vehicle design and performance studies, communication and tracking studies, and all special concerns with reliability, test engineering, quality engineering, and the interface with ground support equipment and spacecraft applications.

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: August 1968

HEINRICH A. SCHULZE

Heinrich A. Schulze is Assistant Chief, Technical of the Marshall Space Flight Center's Facilities Office, a staff office in the office of the Director, MSFC. He was Chief of the Reliability Office, a staff office in the Director until January, 1964, of the Reliability Branch of the Systems Analysis and Reliability Division until November, 1960, when that division was abolished and the Reliability Office and Quality Division were established.

Located near Huntsville, Alabama the Marshall Center is a field center of the National Aeronautics and Space Administration. As such, the center provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

A native of Hannover, Germany, Mr. Schulze has worked in test, design, design evaluation, facilities design, evaluations and requirement, and aeronautical research engineering positions since receiving his Bachelor of Science degree in mechanical engineering from Technical College in Bremen, Germany in 1937.

His first job, after graduation, was in tool and dye design. In 1940 he became a member of the German Army technical troops and later was assigned

M O R E

to the Missile Center in Peenemuende as a power plant development and test engineer. In 1942 he became Chief of the Guided Missile Training School in Germany which position he held until 1945.

Mr. Schulze operated his own consulting engineering firm in Hannover for four years following the end of World War II. In 1949 he became the Hannover District Chief Project Engineer, for A. Friedrich Flender & Co.

In January 1953, Schulze joined the Army Ballistic Missile Agency's Development Operations Division Staff. He transferred to the Marshall Space Flight Center when it was established in July, 1960.

Mr. Schulze is a member of the AIAA and the Institute of Environmental Engineers. His hobbies are stamp-collecting and garden work. Mr. and Mrs. Schulze live at 1716 Sandlin Avenue, S. E. and are the parents of their daughter Ursula, and son, Hardwig, a sophomore at Auburn University.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0040

CURRENT: February 1969

MITCHELL R. SHARPE

Mitchell R. Sharpe is with the Marshall Space Flight Center's Manned Flight Awareness Program. The Manned Flight Awareness Program is an employee motivation function of the Center's System Safety Office.

Marshall is a field center of the National Aeronautics and Space Administration. Established in 1960, it provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

A native of Tennessee, Sharpe was born in Knoxville. He received his BS and MA degrees from Auburn University and did postgraduate work in English at Emory University in Atlanta, Ga. In addition to teaching at Auburn University for two years, he has been a part-time instructor in English at the University of Alabama, Huntsville campus.

Sharpe joined the Marshall Center in 1960 after working as a technical writer for the U.S. Army Missile Command. He is a senior member of the British Interplanetary Society and a member of the Society of Technical Writers and Publishers, the Societe d' Astronautique Francaise, the Society

-more-

for the History of Technology, and the Company of Military Historians. The author of Living in Space-The Environment of the Astronaut, Yuri Gagarin, First Man in Space, and co-author of two college texts Basic Astronautics and Applied Astronautics, he lectures frequently to teacher workshops in space science and has appeared on educational television. He is also an annual contributor to the Encyclopaedia Britannica Book of the Year and has written articles for the Encyclopaedia Britannica and Compton's Encyclopedia. He was the 1968 Robert H. Goddard Essay Award Winner sponsored by the National Space Club in Washington.

Sharpe is married and has three children. He resides at 7302 Chadwell Road in Huntsville, Alabama.

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PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0043 CURRENT: June 1969

JAMES T. SHEPHERD

James T. Shepherd is Assistant to the Director, George C. Marshall Flight Center near Huntsville, Alabama. He was Assistant Director, Facilities Engineering, MSFC, prior to assignment to his present position on July 1, 1965.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Shepherd is a native of Detroit, Michigan. He came to Huntsville in September, 1950, from Atlanta, Georgia, where he was employed with the Television Technical Institute.

Mr. Shepherd is a graduate of Technology High School in Atlanta and the Georgia Institute of Technology. He holds a Bachelor of Science degree in electrical engineering.

Mr. Shepherd is married and the couple has two children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042

CURRENT: 8/69

BART J. SLATTERY, JR.

Bart J. Slattery, Jr. is the Director of Public Affairs for NASA's Marshall Space Flight Center at Huntsville, Alabama. He was assigned to the civilian space agency's facility in June 1960 while still on active duty in the Navy. Retiring from the Navy in 1963, with the rank of Captain, he remained at Marshall Center as Chief of Public Affairs. He was Assistant Director of Plans and Evaluation in the Navy's Office of Information at the Pentagon before coming to Marshall Center.

Established in 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Prior to his present assignment, Mr. Slattery served as Public Information Officer for Naval Air Station, St. Louis; Naval Air Reserve Training Command, Glenview, Illinois; and Naval Air Reserve Facility, Miami, Fla.

During World War II, he commanded Carrier Aircraft Service Unit 36 at Santa Rosa, California, and during sea duty aboard the aircraft carrier USS Franklin won the Bronze Star for "heroic achievement in combat" off the coast of Honshu, Japan.

MORE

SLATTERY, Bart J. Jr.

Page 2 of 2 Pages
CURRENT: 8/69

Mr. Slattery was born on May 6, 1911, in St. Louis, Missouri, and attended St. Joseph College at Windsor Springs, Missouri.

He is a member of Alabama State Aerospace Education Committee; U. S. Naval Academy Alumni Association and Reserve Officers Association.

Mr. Slattery is married to the former Lily R. Abel of St. Louis. The couple has a son and a daughter.

###

GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

1. DATE:

APR 10, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS:

Bill Hudson, 2015
 1200 2nd St
 Memphis, Tenn

3. PLACE AND DATE OF BIRTH:

Memphis, Tenn
 Nov. 17, 1951

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):

1200 2nd St
 Memphis, Tenn 38103
 907-4715

5. DATE BEGAN WORK AT MSFC:

Nov. 1963

6. A. PARENTS:

MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:

William Keith Smith
 Marion Ann Smith

C. ADDRESS OF PARENTS:

1000 1st St
 Memphis, Tenn

7. A. MARITAL STATUS:

SINGLE
 MARRIED

B. WIFE'S MARRIAGE NAME:

Dr Ann (Smith) Hudson

C. NAME AND ADDRESS OF WIFE'S PARENTS:

2000 1st St
 Memphis, Tenn

8. NAME AND AGES OF CHILDREN (If out of school, place of residence & occupation):

Alfred E. Hudson - 16
 William Keith Hudson - 12

9. HIGH SCHOOL(S) ATTENDED LOCATION YEAR GRADUATED

High School, Memphis, Tenn 1969

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED DATES ATTENDED YR GRAD. DEGREE MAJOR

Memphis State University	1969-1970	1970	B.S.	Physics
Memphis State University	1967-1968	1968	B.S.	Physics

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK DATES ATTENDED DEGREE MAJOR

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12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:

Professional Society
 Memphis State University

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:

Veterans of Foreign Wars
 Memphis State University Club

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)

FIRM	LOCATION	DATES FROM TO	POSITION(S) HELD
Durham Concrete	Memphis, Tenn	1969	ENGR (TNC)
Combs & Baker	Memphis, Tenn	1968-1969	ENGR (TNC)
IBM	Memphis, Tenn	1967-1968	ENGR (TNC)
IBM	Memphis, Tenn	1966-1967	ENGR (TNC)
IBM	Memphis, Tenn	1965-1966	ENGR (TNC)

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:

NONE

16. TECHNICAL PAPERS (name of publication and title):

NONE

17. PATENTS (name and date):

NONE

1. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF, etc)
1942	1945	Army
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
E-5	None	None

4. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.

100 - Army of 1945
 100 - Army of 1945
 100 - Army of 1945

5. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned)

None

APPROVED: [Signature] [Date]

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: July 1967

V. C. SORENSEN

Victor C. Sorensen, a native of the iron ore country of Cuyuna, Minnesota, is Chief of the Management Services Office at the National Aeronautics and Space Administration's George C. Marshall Space Flight Center at Huntsville, Alabama.

In his present position Mr. Sorensen advises Center Management; assists in the formulation of administrative management policies and procedures; and directs Center support programs in areas of security administration, electronic communications, graphics and scale models, technical reporting, historical and technical information, safety, employee health, printing and reproduction, microfilming, storage and distribution of drawings and related technical documentation, administrative procedures, forms and reports management, food service, custodial, mail and records administration and other administrative services

Sorensen's career in Government and as an administrator began in 1937 at Fort Snelling, Minnesota. In 1941 he transferred to the Twin Cities Arsenal, Minneapolis, a manufacturing site for small arms and artillery ammunition. In his first years there he was in charge of the Personnel Office and general administrative services. After a stint in the Navy where he was engaged in personnel work, he returned to the Arsenal and in 1953 became the highest ranking civilian as Executive Assistant to the Commanding Officer. This position in its overall management required negotiating with numerous and varied contractors and labor relations representatives, and also entailed supervision of personnel programs, financial and supply management, organization and methods, security and general administrative services.

He came to Huntsville in 1956 when selected by Dr. Eberhard Rees to establish and manage the Administrative Office of the fast-growing Development Operations Division.

MORE

The Marshall Center was activated on the first day of July 1960 at which time the Development Operations Division of the Army Ballistic Missile Agency was transferred from the Army to the National Aeronautics and Space Administration. Sorensen majored in Business Administration and Industrial Relations at the University of Minnesota and attended several Department of the Army specialized schools.

Bowling and golf are Sorensen's favorite sports. He says, however, that he has the dubious distinction of possessing the lowest bowling scores and the highest golf scores in Huntsville.

He and Mrs. Sorensen reside at 1312 Kennamer Drive, S. E., Huntsville, Ala., and are the parents of two daughters, Sharon and Diane.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: July 1968

DR. FRIDTJOF A. SPEER

Dr. Fridtjof A. Speer is Manager of the Mission Operations Office at the National Aeronautics and Space Administration's George C. Marshall Space Flight Center near Huntsville, Alabama. The Office is an element of the Center's Industrial Operations.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program and conducts related research and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Dr. Speer was Chief of the Flight Evaluation and Operations Studies Division of the Center's Aero-Astrodynamic Laboratory, Research and Development Operations, prior to accepting his present position in August, 1965. A member of the rocket research and development team in Huntsville since March, 1955, he was assistant professor at the Technical University of Berlin and Physics Editor of the Central Chemical Abstract Magazine in Berlin prior to coming to America. From 1943 until the end of the war, he was a member of the former German Guided Missile Development team in Peenemuende.

A graduate of the Technical University, Dr. Speer earned both his Master's degree and Ph.D in physics there.

He became a U. S. citizen on November 23, 1960.

Dr. Speer is married and the couple has three children.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: July 1967

JAMES L. STAMY

James L. Stamy is deputy manager of the National Aeronautics and Space Administration's Michoud Assembly Facility in New Orleans, La.

Michoud, a division of the Marshall Space Flight Center, Huntsville, Ala., is the assembly site of the Uprated Saturn I and Saturn V first stages, designed for use in the Apollo manned lunar landing program.

Born August 13, 1918, in Cedar Rapids, Iowa, Stamy was graduated from Lincoln High School in Webster City, Iowa in 1936. He was graduated from Webster City Junior College in 1938 and received a bachelor of science degree in mechanical engineering from Iowa State College, Ames, Iowa in 1946.

Before being assigned to Michoud, Stamy served from 1960 to 1962 as a project engineer for NASA at the Marshall Center. From 1950 to 1960, he was a mechanical engineer for the Army Ballistic Missile Agency of the Ordnance Guided Missile Command, Redstone Arsenal, Huntsville, Ala.

He worked at the White Sands Proving Ground, Las Cruces, New Mexico, as a mechanical engineer from 1948 to 1950 and was with Nadler Foundry and Machine Company, Plaquemine, La., from 1946 to 1948.

Stamy, who enjoys flying, woodworking and reading as hobbies, is a member of the American Rocket Society, Soaring Society of America, Experimental Aircraft Association and Pi Kappa Alpha Fraternity.

He has specialized in the following research fields: ground support equipment, project engineering, systems engineering and project management.

Stamy and his wife, the former Miss Louisiana M. Richard of Plaquemine,

La. , reside at 3857 Oxford St. , Slidell, La. They have three children: Mary Charlotte, Esther Irene and Helen Leland.

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GEORGE C. MARSHALL SPACE FLIGHT CENTER
 PUBLIC INFORMATION QUESTIONNAIRE
 (INFORMATION PROVIDED HERE WILL BE USED FOR PUBLIC RELEASE)

1. DATE:

April 4, 1969

PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: Francis M. Stewart, III
 3307 Hutchens Ave. Huntsville, Alabama

3. PLACE AND DATE OF BIRTH:
 Gray, Georgia
 August 19, 1920

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone):
 Manager, F-1 Engine Project-Engine Program
 Industrial Oper. Dept. Bldg. 4202 - 453-2374

5. DATE BEGAN WORK AT MSFC:
 Feb. 19, 1962

6. A. PARENTS:
 MOTHER LIVING
 FATHER LIVING

B. NAME OF PARENTS:
 Mr. & Mrs. F. M. Stewart, Jr.

C. ADDRESS OF PARENTS:
 Gray, Georgia

7. A. MARITAL STATUS:
 SINGLE
 MARRIED

D. WIFE'S MAIDEN NAME:
 Jane Hogan

C. NAME AND ADDRESS OF WIFE'S PARENTS:
 Mrs. J. T. Hogan
 Macon, Georgia

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation):
 F. M. Stewart, IV, Age 17
 Cynthia Stewart, Age 14

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
Jones County High School	Gray, Georgia	1937

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD.	DEGREE	MAJOR
Gordon Military College, Barnesville, Ga.	1937-1938	-	-	-
Georgia Institute of Technology, Atlanta, Ga	1938-1942	1942	BS	Mech. Engr.

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS:
 AIAA

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports:
 Bass Fishing - Lure Making

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES FROM TO	POSITION(S) HELD
NASA/MSFC	Huntsville, Ala.	6-66-9-67	Acting Mgr. F-1 Eng. Project
NASA/MSFC	Huntsville, Ala.	2-62-6-66	Deputy Mgr. F-1 Eng. Project
Chrysler Corp. Missile Div. (cont'd Sec. 20)	Huntsville, Ala.	4-58-2-62	Mgr. Prop. & Mech. Systems Section

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN:
 N/A

16. TECHNICAL PAPERS (name of publication and title):
 N/A

17. PATENTS (name and date):
 N/A

14. A. DATE(S) OF ENTRY INTO MILITARY SERVICE	B. DATE(S) OF SEPARATION	C. BRANCH OF SERVICE (Army, Navy, AF etc)
8 Oct. 17, 1942	August 14, 1946	Army
D. RANK OR GRADE UPON SEPARATION:	E. RESERVE STATUS (Component):	F. RANK OR GRADE IN RESERVE:
Captain		

15. NAMES AND ADDRESS OF NEWSPAPERS, TRADE PUBLICATIONS, EMPLOYEE PAPERS, SCHOOL PERIODICALS OR ALUMNI BULLETINS WHICH WOULD BE INTERESTED IN NEWS ABOUT YOU.

Georgia Tech Alumni Magazine
 Georgia Tech
 Atlanta, Ga.

16. REMARKS (facts not covered above, such as awards, decorations, or citations you want mentioned):

(con'd) from Item 14

Combustion Engr. Corp.	Chattanooga, Tenn.	11-57-4-58	Sen. Mech. Design Engr.
Nuclear Components Div.			
North American Aviation	Downey, Calif.	6-56-8-57	Sen. Engr. Test
Missile Dev. Div.			

NOTE:
 Currently acting as H-1 Engine Project Manager in addition to regular duties, pending official approval.

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George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0042 or 453-0043

CURRENT: 5/69

DR. ERNST STUHLINGER

Dr. Ernst Stuhlinger is the Associate Director for Science at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall Center was established in 1960 as a field center of the National Aeronautics and Space Administration. As such, it provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Dr. Stuhlinger received his Doctorate in physics at the University of Tuebingen in 1936.

He was appointed assistant professor of the Physics Department of the Berlin Institute of Technology and was a member of the faculty there from 1936 to 1941. He worked closely with Dr. Hans Geiger, developer of the Geiger counter, for seven years.

From 1939 to 1941, Dr. Stuhlinger was a member of the research group conducting studies in nuclear physics. In the spring of 1943 he joined the Rocket Development Center group at Peenemuende which was under the

MORE

technical supervision of Dr. Wernher von Braun, presently Director of Marshall Space Flight Center. At Peenemuende, Dr. Stuhlinger carried on research in connection with the development of guidance and control systems for the V-2 guided missile.

Dr. Stuhlinger, who became an American citizen on April 14, 1955, came to the United States in 1946 under the auspices of the Ordnance Corps, U. S. Army. He conducted research and development work with guided missiles at Fort Bliss, Texas, and assisted in high altitude research firings of captured V-2's at White Sands Proving Ground, New Mexico.

From 1956 until July 1, 1960, Dr. Stuhlinger was director of the Research Projects Laboratory, Army Ballistic Missile Agency, U. S. Army Ordnance Missile Command at Redstone Arsenal, Alabama. From July 1960 to February 1969 he was the Director, Space Sciences Laboratory of the Marshall Space Flight Center. He is now the Associate Director for Science at the Marshall Center.

In July 1960, when the Development Operations Division of the Army Ballistic Missile Agency became the nucleus for establishment of the Marshall Space Flight Center, Dr. Stuhlinger transferred with Dr. von Braun's research and development group to the new center.

Dr. Stuhlinger, who has gained recognition for his feasibility and design studies of electrical propulsion systems for space ships, was awarded the American Rocket Society's Propulsion Award on December 7, 1960.

Dr. Stuhlinger has also received the following awards: Hermann Oberth Award (1962) was given by the Huntsville Section, American Institute of Aeronautics and Astronautics (AIAA) for "outstanding contributions in the

MORE

field of space flight." This award was given for his contribution in the area of electric propulsion; the NASA Medal for Exceptional Scientific Achievement (1964); and the Hermann Oberth Medal, again, in 1964.

Dr. Stuhlinger was awarded the Galabert Prize for Achievement in the field of astronautics in Paris, France, January 31, 1962.

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PUBLIC AFFAIRS OFFICE
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: Area Code 205, 453-0042 or 453-0040

CURRENT: June 1969

PAUL L. STYLES

Paul L. Styles, a former member of the National Labor Relations Board, is the Director, Manpower Office, at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Marshall is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Born in Knoxville, Tennessee, on September 14, 1907, the son of the late Mr. and Mrs. William H. Styles of Huntsville, Mr. Styles attended Huntsville High School and holds an honorary Doctor of Law degree from the John Marshall Law School in Atlanta, Georgia.

He began his labor relations career in 1936 as co-chairman of the Industrial Relations Committee of the Huntsville Chamber of Commerce. He was employed by the 10th Region of the National Relations Board in Atlanta from 1937 until 1950, beginning as a field examiner and becoming regional director in 1945.

From 1943 until 1945 he was loaned to the National War Labor Board where he served as Vice-Chairman of the Atlanta, Georgia, Regional War Labor Board.

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In 1950 he was appointed to the National Labor Relations Board by President Harry S. Truman. He served with the Board until 1953, when he resigned and became a private labor relations consultant for management at Toledo, Ohio.

Prior to becoming a member of the Marshall Center management staff, Mr. Styles was director of industrial relations with a company at Morgantown, West Virginia, and also served as a management consultant for labor relations for numerous firms in the same area. He assumed his present duties in April, 1968.

Mr. Styles is a member of the Industrial Relations Research Association, and has had numerous articles published in the labor relations field.

He and his wife, the former Louise Carter of Huntsville, are residing at 1410 Woodmont Avenue, S. E., Huntsville. They have two children: Paul L., Jr., an attorney in Atlanta, Ga.; and Mrs. Ralph O. Kiper of Shreveport, La.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone:

CURRENT: April 1969

WILLIAM TEIR

William Teir is Manager of the Saturn IB Program at NASA's Marshall Space Flight Center in Huntsville, Alabama. The Saturn IB Program Office, an element of the Center's Saturn Program Office, is responsible for management of the entire Saturn IB development and production. The Saturn IB launch vehicle boosted the first manned Apollo Command and Service Module into earth orbit for the history making Apollo 7 mission with astronauts, Shirra, Cunningham, and Eisele; and will be used as the launch vehicle for the forthcoming Apollo Applications Program.

Born in Rainier, Oregon, on June 5, 1918, Mr. Teir is a graduate of Oregon State College. He holds a Bachelor of Science degree in mechanical engineering and earned a Master of Science degree at the University of Southern California in aeronautics and guided missiles. Mr. Teir attended the Army's highest school, the U. S. Army War College at Carlisle Barracks, Pennsylvania, where he studied management of major echelons of the Department of Defense and other departments of the Government. He has devoted most of his military career to Army guided missile research and development and has held

various U. S. Army guided missile research and development positions and missile and rocket commands during the last twenty years. These assignments include: three years with the Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California, where he worked on the Corporal and Sergeant Missile Programs; in the office of Chief of Research and Development, Department of the Army, Washington, D. C., where he was chief of the Surface-to-Surface Missile Branch which managed the Army's surface-to-surface missile programs for the Army General Staff; and an assignment as Chief of the Requirements Division in the Artillery Agency of the Army Combat Development Command at Fort Sill, Oklahoma. His last assignment in the Army before coming to Huntsville was as Commander of the 9th Missile Group which contained all of the Army's Pershing Missile Battalions in the Continental United States, a Sergeant Missile Battalion, and Army rocket units.

Now retired from the Army as a Colonel, Mr. Teir joined the research and development team at the Marshall Center on June 15, 1965, when he accepted the position of Deputy Manager, Operations, Saturn I/IB Program. He assumed his present duties on January 15, 1967.

Mr. Teir is married to the former Miss Florence Harrell of Waco, Texas, and the couple has one child, a son, William Victor, age 10.

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PLEASE PRINT OR TYPE

2. NAME & HOME ADDRESS: *1000 1st St. S.W. Albuquerque, N.M.*

3. PLACE AND DATE OF BIRTH: *Albuquerque, N.M. 2 January 1912*

4. PRESENT JOB AND COMPLETE ADDRESS (Organization, building number & phone): *1 year - 1st Div. of Ordnance Lab. July 44 - Nov 5 - 1946*

5. DATE BEGAN WORK AT MSFC: *16 July 1950*

6. A. PARENTS: MOTHER LIVING FATHER LIVING

B. NAME OF PARENTS: _____

C. ADDRESS OF PARENTS: _____

7. A. MARITAL STATUS: SINGLE MARRIED

B. WIFE'S MAIDEN NAME: *Robert White*

C. NAME AND ADDRESS OF WIFE'S PARENTS: *Mr. & Mrs. A. J. White - 1350 1st St. S.W. Albuquerque, N.M.*

8. NAMES AND AGES OF CHILDREN (If out of school, place of residence & occupation): *14 - 14*

9. HIGH SCHOOL(S) ATTENDED	LOCATION	YEAR GRADUATED
<i>High School (unspecified)</i>	<i>Terrell - Oklahoma</i>	<i>January 1929</i>

10. NAME AND LOCATION OF COLLEGE(S) ATTENDED	DATES ATTENDED	YR. GRAD	DEGREE	MAJOR
<i>State University Oklahoma (unspecified)</i>	<i>1929 - 1931</i>	<i>1931</i>	<i>B.S.</i>	<i>Physics</i>
<i>Washington State University (unspecified)</i>	<i>12. 1931 - 1935</i>	<i>1935</i>		

11. NAME & LOCATION OF COLLEGE(S) ATTENDED FOR GRAD. WORK	DATES ATTENDED	DEGREE	MAJOR

12. MEMBERSHIP IN LODGES, PROFESSIONAL SOCIETIES, FRATERNITIES, CIVIC CLUBS OR OTHER ORGANIZATIONS: *Member, District of Engineers and Architects (unspecified)*

13. EXTRACURRICULAR ACTIVITIES (not college) such as public office, civic work, hobbies or sports: *Photography - swimming - fishing*

14. PRINCIPAL PREVIOUS WORK EXPERIENCE (list in chronological order)	LOCATION	DATES FROM - TO	POSITION(S) HELD
<i>General Electric - Inc. (unspecified)</i>	<i>Terrell, Okla.</i>	<i>1945 to</i>	<i>Section Chief</i>
<i>General Electric - Inc. (unspecified)</i>	<i>Terrell, Okla.</i>	<i>1946</i>	<i>Branch Chief</i>
<i>General Electric - Inc. (unspecified)</i>	<i>Terrell, Okla.</i>		<i>Area Director</i>

15. RESEARCH FIELDS YOU HAVE SPECIALIZED IN: *Gun development and testing of the gun system for the purpose of increasing accuracy and reliability of the gun system.*

16. TECHNICAL PAPERS (name of publication and title): *Various papers for the publication of the technical engineering. Chapter 3-524 Test Procedures and Chapter 3-525 Planning of Test Procedures.*

17. PATENTS (name and date): *None*

Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: August 1968

ARTHUR W. THOMPSON

Arthur W. Thompson, born February 6, 1924, in Louisville, Kentucky joined the research and development team in Huntsville in July 1956. He is Manager of the S-I and S-IB Stage Project Office of the Center's Saturn I/IB Program Office.

Located near Huntsville, Alabama the Marshall Space Flight Center is a field center of the National Aeronautics and Space Administration. As such, the center provides space launch vehicles and payloads for the nation's space exploration program, conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Thompson attended Western Kentucky College in Bowling Green, graduating in 1949 with Bachelor degrees in mathematics and physics. He has since attended evening courses at New Mexico A&M and the University of Alabama Extension Service.

Thompson has worked one year at the Lexington Signal Depot and five years at White Sands Proving Grounds. At White Sands he supervised a group responsible for testing the Corporal and Talos proximity fuzes, and made studies in electronics warfare as pertains to the Nike and Corporal missile systems.

M O R E

Since coming to Huntsville, Thompson has worked in planning and conducting space experiments and the electronic systems required for their missions, including the satellites used in the ARGUS program, meteorological satellites, scientific satellites, and payloads for testing basic electric and nuclear/electronic propulsion systems. He helped organize the Technology Utilization program for NASA, which has the objective of making NASA developments available to the public. He is now manager of the S-I/IB Stage Project, which had responsibility for developing the first stage of the Saturn I space vehicle and is now responsible for the development of the first (or booster) stage of the Saturn IB.

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Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 453-0040, 453-0042 or 453-0043

CURRENT:3/69

JACK TROTT

Mr. Jack Trott, with 21 years of Government service engineering experience, is the Deputy Director of the Quality and Reliability Assurance Laboratory at the George C. Marshall Space Flight Center near Huntsville, Alabama.

Established in 1960 as a field center of the National Aeronautics and Space Administration, Marshall Center provides heavy launch vehicles and scientific payloads for the nation's civilian space program and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program, including the Orbital Workshop for extended manned space flights and the Apollo Telescope Mount for solar and stellar scientific experiments.

Born in New York City in 1925, Mr. Trott attended New York's public schools. Graduating in 1943, he enlisted in the Army Air Force and served until the end of World War II.

After the war, he attended Auburn University where he received a Bachelor of Science degree in mechanical engineering in 1948.

Upon leaving college, Mr. Trott worked for a short time as a test engineer for the General Electric Company in Schenectady, N. Y., before entering Government service with the Tennessee Valley Authority in 1950.

A change in interests prompted a move from the field of electric power to guided missiles in 1954 as Mr. Trott transferred to Redstone Arsenal to become the Chief of the Propulsion Systems Unit, Mechanical Engineering Section, Industrial Engineering Branch of the Department of the Army.

MORE

From this auspicious beginning with the Army, Mr. Trott progressed through a series of positions of increasing responsibility including Chief of Warhead and Fuzes Unit, Chief of Technical Planning Staff, and Rocket Engine Project Engineer in the Fabrication Laboratory.

In 1959, upon transfer to NASA, Mr. Trott was assigned to the Technical and Scientific Staff in the Fabrication and Assembly Engineering Division. From this position he was promoted, in 1961, to Chief of the Technical Liaison Office, Fabrication and Assembly Engineering Division, a position he held until early 1962 when he was again promoted -- this time to Deputy Director of the Manufacturing Engineering Laboratory. In this capacity Mr. Trott acquired invaluable experience which has well qualified him for his present assignment of Deputy Director of the Quality and Reliability Assurance Laboratory.

In addition to acquiring broad and useful experience, Mr. Trott has also found time to complete his Master's degree in industrial engineering at Georgia Institute of Technology. While at Georgia Tech, Mr. Trott was installed as a member of Alpha Pi Mu, the National Industrial Engineering honor society.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: 1/68

OVERTON S. TYSON JR.

Overton S. Tyson, Jr., is the Resident Manager at the NASA's Marshall Space Flight Center Resident Office at the Douglas Missile and Space Systems Division, Huntington Beach, California. He was appointed to this position in January 1968.

Born in Rome, Georgia, on May 31, 1935, Tyson was educated in that state. He is a graduate of Pepperell High School and Georgia Institute of Technology. He holds a bachelor's degree in mechanical engineering. Prior to becoming a member of the MSFC staff in October 1960, Tyson was first a research engineer (June 1957-January 1958) and then a field engineer (January 1958 - October 1960) with North American Aviation, Rocketdyne, in California.

The son of Mr. and Mrs. O. S. Tyson, Sr., of Lindale, Georgia, he is married to the former Miss Sandra Jane Noyes of Canoga Park, California and the couple has three children: Charles Steed, 7; Michael Lee, 5; and Derek Craig, 3.

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George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Huntsville, Alabama 35812

Telephone: Area Code 205, 876-6074 or 876-6988

CURRENT: JAN '68

MATTHEW W. URLAUB

Matthew W. Urlaub is the S-IC Stage Project Manager in the Saturn V Program Office at NASA's Marshall Space Flight Center in Huntsville, Alabama. The Saturn V Program Office is an element of the Center's Industrial Operations.

Born in Brooklyn, New York, September 23, 1927, Urlaub is a 1945 graduate of Jamaica High School, Jamaica, Long Island, New York. He attended Duke University, Durham, North Carolina, to earn his bachelor of science degree in mechanical engineering.

Urlaub entered the U. S. Army in November 1950 and completed his tour of duty in March 1955. During the period 1952-53, he completed a one year course at the Ordnance Guided Missile School, Redstone Arsenal. Upon return to civilian status, Urlaub became a member of the Army Ballistic Missile Agency's Industrial Division staff at Redstone Arsenal. Specifically, he was the ABMA Senior Resident Engineer for the Jupiter Program at Chrysler Corporation in Detroit. He transferred to MSFC in November 1961. The research field in which Urlaub specializes is project engineering/management.

The son of Mr. Matthew B. Urlaub and the late Mrs. Urlaub, he is married to the former Miss Betty Worley of Owens Cross Roads, Alabama, and the couple has three children: Susan Dianne 17, Sherri Denice 8, and Mark William 3.

Dr. Wernher von Braun, Director
George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama

Dr. Wernher von Braun became the Director of the George C. Marshall Space Flight Center when it was created in 1960. As a field center of the National Aeronautics and Space Administration, the Marshall Center provides space launch vehicles and payloads, conducts related research, and studies advanced space transportation systems.

Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo, the nation's manned lunar landing program, and participation in the Apollo Applications Program.

Dr. von Braun was born in Wirsitz, Germany, on March 23, 1912. He was awarded a bachelor's degree at the age of 20 from the Berlin Institute of Technology. Two years later, in 1934, he received a doctorate in physics from the University of Berlin. He was technical director of Germany's rocket program at Peenemuende.

Dr. von Braun came to the United States in September, 1945, under contract to the U. S. Army, along with 120 of his Peenemuende colleagues. He directed high altitude firings of V-2 rockets at White Sands Missile Range, N. M., and later became project director of the Army's guided missile development unit at Ft. Bliss, Texas. In 1950 the entire group was transferred to Redstone Arsenal at Huntsville, Ala., where the Army centered its rocket activity.

The Redstone, the Jupiter, and the Pershing missile systems were developed by the von Braun team. Special versions of the Redstone and Jupiter, with solid propellant upper stages, were used in launching the Free World's first satellites of the Earth and Sun, Explorer I and Pioneer IV, while the team was a part of the Army Ballistic Missile Agency. This team was transferred from the Army to NASA in 1960 as the nucleus for the Marshall Center.

Since 1958 Dr. von Braun has received 19 honorary doctorate degrees -- 14 in science and five in laws -- from universities and colleges in the United States, Europe, and South America. In addition he has received numerous national and international awards, trophies, and citations for his leadership in rocketry and space programs.

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Public Affairs Office
George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

Telephone: A/C 205, 876-6988

CURRENT: August 1968

RUSSELL D. WALKER

Russell D. Walker is acting manager of the Projects Logistics Office at the George C. Marshall Space Flight Center near Huntsville, Alabama.

The Marshall Center is a field center of the National Aeronautics and Space Administration. As such, the center provides space launch vehicles and payloads for the nation's space exploration program, and also conducts related research, and studies advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Born in Calhoun, Tennessee, on December 18, 1925, Walker is a graduate of Calhoun High School, Tennessee Wesleyan College, and Tennessee Polytechnic Institute where he received his BS degree in math. He later attended the University of Alabama. He is a member of the American Institute of Aeronautics and Astronautics and the Sole Education Committee (Society of Logistics Engineers).

Walker's engineering career began in 1950 with the Tennessee Valley Authority at Watts Bar Dam in Tennessee. In 1951 he came to Huntsville where he joined the rocket and guided missile research and development team at Redstone Arsenal. He joined the Marshall Space Flight Center staff in 1962.

MORE

Among the technical reports and papers authored or co-authored by Walker are the following: "Saturn Vehicle Cryogenic Programs," and "Production Engineering of Solid Fuel Rocket Motors."

The son of Mrs. Wesley Walker of Huntsville, Alabama and the late Mr. Walker of Riceville, Tennessee, he is married to the former Miss Juanita Cope of McMinnville, Tennessee, and the couple has five children: David, 14; Marcia, 12; Susan, 7; Ray, 4; and Stephen, 1½.

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George C. Marshall Space Flight Center
National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

CURRENT: 8/69

Telephone: A/C 205, 453-0040

FRITZ H. WEBER

Fritz H. Weber is an aerospace engineer in the Central Systems Engineering Office at the National Aeronautics and Space Administration's George C. Marshall Space Flight Center near Huntsville, Alabama. Prior to appointment to his present position, Mr. Weber was a member of the Astrionics Laboratory staff.

Marshall Center is a field installation of NASA. Its main responsibility is to provide the large Saturn rockets for use in the nation's manned space flight program. In addition, it is charged with designing, building, and testing the next generation of manned spacecraft following the Apollo lunar landing effort. The follow-on program, known as Apollo Applications, calls for a cluster of "payloads" to be brought together in earth orbit to form an early space station. The major spacecraft elements for which MSFC is responsible are the Saturn I Workshop, Apollo Telescope Mount, Multiple Docking Adapter, and Airlock Module.

Born in Striegau, Germany, May 9, 1916, Mr. Weber was educated in secondary schools and colleges in Germany. He is a graduate of Striegau High School, and Gauss College, Berlin. He holds a Bachelor of Science degree in electrical engineering.

Mr. Weber began work with the Army Ballistic Missile Agency, Redstone Arsenal, Alabama, in 1950. Prior to coming to Huntsville, he was employed by the Ordnance Research and Development Division in Fort Bliss, Texas, and at the German Army Rocket Center in Peenemuende, Germany. When the Marshall Space Flight Center was established in 1960, Mr. Weber transferred to the new Center.

Mr. Weber is married to the former Elisabeth Harnacke and the couple has two children.

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WALTER WIESMAN

BIOGRAPHY
APRIL 1969

Walter Wiesman is Internal Communication Coordinator for the NASA Marshall Space Flight Center in Huntsville, Alabama. He is a native of Huntsville, Alabama, in the United States in 1925, and has been a member of the Huntsville Jaycees since 1954.

Mr. Wiesman's professional career spans 43 years of which the last 26 have been spent in missile and space projects. His principal interests are organizational communication and managerial development. In addition to his job with the Space Administration, Mr. Wiesman has been acting for ten years as consultant to industry and other government agencies.

He is a former National President of the Industrial Communication Council; a member of the National Society for the Study of Communication, the Speech Association of America, and the International Platform Association.

A 16 year veteran of public speaking, Mr. Wiesman lectures extensively before professional, management and educational associations. Many of his lectures have been published, and one of his talks on citizenship was inserted in the Congressional Record.

Mr. Wiesman has been heavily involved in civic work and community development. He was elected president of the Huntsville Jaycees in 1952 before becoming a U. S. citizen, subsequently served in state and national offices, and is now a Senator and life-time member of Junior Chamber International. Mr. Wiesman is one of the founders and trustee of the Huntsville Arts Council and a member of the Huntsville Literary Association.

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Huntsville, Alabama 35812

Telephone: A/C 205, 876-6074 or 876-6988

CURRENT: 10/67

JAMES W. WIGGINS

James W. Wiggins is the Chief, Technology Utilization Office, at NASA's George C. Marshall Space Flight Center in Huntsville, Alabama.

The responsibility of the office, headed by Wiggins since its inception four years ago, is to channel Space Age technological marvels to industry as quickly and efficiently as possible. This work falls into the following three broad areas: identification of scientific and technological developments; evaluation of such developments; and dissemination of the information.

Wiggins earned his bachelor of science degree in aeronautical engineering at Auburn University, Auburn, Alabama. Following three years active duty with the U. S. Air Force, he began his career 19 years ago in the research and development field.

A native of Alabama, Wiggins was born in Andalusia in 1923. He is married and the couple has three children.

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National Aeronautics and Space Administration
Marshall Space Flight Center, Alabama 35812

CURRENT: 6/69

TELEPHONE: A/C 205, 453-0040 or 453-0042

F. L. WILLIAMS

F. L. (Frank) Williams is Associate Director for Advanced Planning, Program Development, at the George C. Marshall Space Flight Center near Huntsville, Alabama. Immediately prior to this assignment he was Director of the Advanced Systems Office and Assistant to the Director, MSFC, respectively.

The Marshall Center is a field center of the National Aeronautics and Space Administration. As such, it provides space launch vehicles and scientific payloads for the nation's civilian space program, and conducts related research and studies for advanced space transportation systems. Current programs include the Saturn IB and Saturn V launch vehicles for Project Apollo (the nation's manned lunar landing program) and the Saturn S-IVB Orbital Workshop and the Apollo Telescope Mount (projects of the Apollo Applications Program).

Mr. Williams, born in Fairfield, Alabama, on February 4, 1929, is a graduate of Auburn University and the Massachusetts Institute of Technology. He holds both Bachelor and Master of Science degrees in aeronautical engineering. He is a member of the American Institute of Aeronautics and Astronautics and a life member of both Sigma Phi Epsilon fraternity and Scabbard and Blade (an honorary military fraternity).

MORE

WILLIAMS, F. L.

2
CURRENT: 6/69

A former captain in the U. S. Air Force (1951-58), Mr. Williams began his engineering career at Wright Patterson Air Force Base, Ohio. He joined the research and development team in Huntsville in 1958 as a member of the Army Ballistic Missile Agency staff and transferred to Marshall Center when it was established on July 1, 1960.

The son of Mr. and Mrs. James L. Williams of Fairfield, Alabama, he is married to the former Miss Alma Jean Sterling and the couple has two children: Joel Allen, 16; and Melissa Jean, 14.

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August 15, 1967

BIOGRAPHICAL SKETCH

Mr. Hans F. Wuenscher is assistant director for advanced projects of the Manufacturing Engineering Laboratory at the Marshall Space Flight Center in Huntsville, Alabama. The George C. Marshall Space Flight Center is the largest of the National Aeronautics and Space Administration's twelve centers.

Mr. Wuenscher, born in 1915 in Stollberg, Germany, received a Bachelor of Science degree in Mechanical and Aeronautical Engineering from the State College for Technology, Chemnitz in Saxony, in 1938. He attended the Technical University Berlin and Prague to earn his Master of Science degree in Engineering in 1943. Post graduate work was also done at the University of Frankfurt. He attended the National Airline Pilots School (1935) and holds the International Award for Glider Pilots since 1934.

Prior to coming to the United States in December 1946 to accept a position with the Holloman Air Development Center, Holloman AFB, New Mexico, Mr. Wuenscher was employed with the National Aeronautical Research Center (DVL) in Berlin-Adlershot (1938-41). He worked in Experimental Aircraft Development and Flight Testing and was coordinator for Aeronautical R&D to the Technical University in Germany. He was General Manager of the Aircraft Development Company (FGP) in Prague (1941-45) and General Manager of Hans Wuenscher K. G. in Neustadt/Main (1946-56).

In February 1958, Mr. Wuenscher joined the research and development staff of the Army Ballistic Missile Agency at Redstone Arsenal and was transferred with that group, when it became the nucleus for the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration on July 1, 1960.

Mr. Wuenscher, who specializes in the field of Space Vehicle Research and Development, is a member of the American Institute of Aeronautics and Astronautics and the Soaring Society of America.

Technical papers published by Mr. Wuenscher are as follows:

- Powered High Performance Sailplane C10, Flugsport Nr. 8, April 1941
- Aeronautical Goals and Problems, DVL Folge 4, 1941 ZWB
- The Experimental Determination of the Displacement of the Center of Gravity and the Moment of Inertia about the Roll-Axis of a Jupiter Missile by a Compound-Pendulum Method, ABMA Technical Report No. DF-TR-2-58
- 200-Inch Multicell Test Tank, NASA, MSFC-R-ME-EP-6007
- Lifting Center Body Land Recoverable Booster, SAE Paper Nr. 670398

Mr. Wuenschel has received patents listed as follows:

German Patents:

- Nr. 726494, Aircraft Configuration with Variable Propeller
- Nr. 910836, High Temperature Process for Stabilization of Wood
- Nr. W14F4, Pump for Fluids of High Viscosity
- Nr. 1614959, Fabrication Technique
- Nr. BIII160, Fabrication Technique

U. S. Patents:

- Nr. 3,202,381, Recoverable Rocket Vehicle
- NASA Case 5344, Space Locating and Handling Device, Serpentuator

August 15, 1967

BIOGRAPHICAL SKETCH

Mr. Hans F. Wuenscher is assistant director for advanced projects of the Manufacturing Engineering Laboratory at the Marshall Space Flight Center in Huntsville, Alabama. The George C. Marshall Space Flight Center is the largest of the National Aeronautics and Space Administration's twelve centers.

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- The Experimental Determination of the Displacement of the Center of Gravity and the Moment of Inertia about the Roll-Axis of a Jupiter Missile by a Compound-Pendulum Method, ABMA Technical Report No. DF-TR-2-58
- 200-Inch Multicell Test Tank, NASA, MSFC-R-ME-EP-6007
- Lifting Center Body Land Recoverable Booster, SAE Paper Nr. 670398

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- Nr. 910836, High Temperature Process for Stabilization of Wood
- Nr. W14F4, Pump for Fluids of High Viscosity
- Nr. 1614959, Fabrication Technique
- Nr. BII160, Fabrication Technique

U. S. Patents:

- Nr. 3,202,381, Recoverable Rocket Vehicle
- NASA Case 5344, Space Locating and Handling Device, Serpentuator