

GODDARD NEWS

GODDARD SPACE FLIGHT CENTER

GREENBELT, MARYLAND

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The National Aeronautics and Space Administration



JAN. 27, 1961



HOUSE COMMITTEE VISITOR . . . Mr. Raymond Wilcove, Staff Consultant of the House Committee on Science and Astronautics, recently took his first look at the Goddard Space Flight Center. Escorting Mr. Wilcove was Associate Director Eugene W. Waselewski (right). Left to right, Frank Marriott, Assistant Legislation Liaison, NASA Hqs., Mr. Wilcove, and explaining one of the P-14 satellite structures is N. Whitney Matthews, Head of the Payload Systems Division.

DR. GLENNAN LEAVES NASA

Dr. T. Keith Glennan, Administrator of the nation's first civilian space program since its beginning on October 1, 1958, left the post on January 20, to return as President of the Case Institute of Technology, Cleveland, Ohio.

In a letter accepting Dr. Glennan's resignation, President Eisenhower said, "Under your leadership, the National Aeronautics and Space Administration, since its inception on October 1, 1958, has compiled a record of achievement of which every American can be justly proud. Therefore, while accepting your resignation as Administrator of NASA, effective January 20, 1961, I wish to express my thanks for the great contribution you have made.

"Our Nation's non-military aeronautical and space activities are vastly expanding human knowledge of phenomena in the atmosphere and outer space and applying this knowledge for the benefit of all mankind the progress that is being made is striking testimony to your ability to quickly bring together an effective and dedicated staff, to plan an imaginative program of space exploration, and to implement this plan with vigor and determination.

"In little more than two years NASA has successfully launched meteorological satellites, such as Tiros I and Tiros II, that promise to revolutionize methods of weather forecasting, demonstrated the feasibility of satellites for global communications by the successful launching of Echo I, produced an enormous amount of valuable scientific data, such as the discovery of the Van Allen radiation belts, successfully launched deep-space probes that have established the greatest range over which man has tracked, and made gratifying progress toward the goal of manned space flights.

"Because of the organization and program you have helped to create, Americans can look forward to a remarkable future in space exploration. It is hard to realize—yet inexorably true—that the near future will hold such wonders as the orbital flight of an astronaut, the landing of instruments on the moon, the launching of the giant saturn, and the reconnaissance of Mars and Venus by unmanned vehicles.

"As you return to private life, you carry with you my appreciation, respect, and friendship. I wish you a long, happy, and healthy future."

A STREETCAR NAMED "OGO"

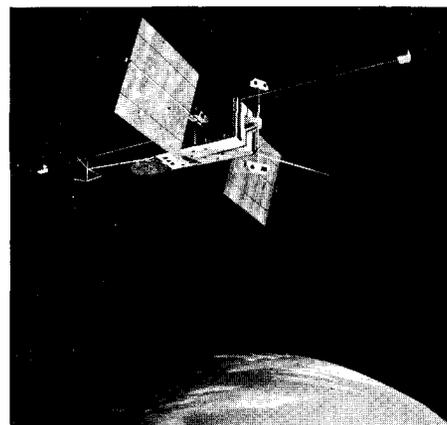
The Goddard Space Flight Center will negotiate a 15 million-dollar contract of an orbiting geophysical observatory with Space Technology Laboratories, Inc., of Los Angeles. Selected from eight bidders, STL is to deliver three of the standardized satellites within three years. The spacecrafts are referred to as "streetcar" satellites because they are to be standardized in model structure, basic power supply, attitude control, telemeter and command systems.

Goddard's Project Manager for OGO is Wilfred E. Scull. Project scientists are Dr. George H. Ludwig and Nelson W. Spencer.

Approximately six by three feet square and weighing 1000 pounds, the satellites will feature solar cell paddles about six feet square. While the initial scientific payload will weigh about 150 pounds, OGO's design has a growth potential to 1500 pounds, including a 300-pound "piggyback" satellite. Among scientific missions planned for OGO are measurements of magnetic fields, atmosphere structure, ionosphere, dust, energetic particles, planetary parameters, solar physics, astronomy, meteorology, biology and tests of structures.

First mission projects for the satellite is scheduled for early 1963 and will include a wide variety of experiments, including a study of energetic particles in

(See OGO on Page 3)



ARTIST'S CONCEPTION of the OGO-orbiting geophysical observatory. Three will be built for the Goddard Space Flight Center by Space Technology Laboratories, Inc.

NEW FACES AT GSFC



Gordon H. Tyler

A new Chief of the Procurement and Supply Division was appointed January 17. He is Gordon H. Tyler, former Assistant to the Commander for the Central Contract Region at Wright-Patterson AFB, Ohio.

Tyler entered Federal Service at Wright-Patterson in 1948 and was later appointed Attorney Advisor. In 1952, he transferred to the staff of General Procurement.

In 1955 he became Director of Procurement and Production for the USAF in Mobile, Alabama and served as Administrator of all Air Force contracts performed in a ten-state area. In 1957, the Air Force Association selected him to receive an award for Procurement and Production Manager of the year.

Tyler was born in Detroit, Michigan and attended the University of Louisville, Kentucky, where he graduated in 1947 with a Bachelor of Law Degree and in 1958, received his Bachelor of Arts. In 1958 he was a recipient of a Sloan Fellowship to the Massachusetts Institute of Technology and completed that program in 1960, receiving his Master of Science Degree.

Mr. Tyler's wife and four children presently reside in Ohio but plan to join him soon in Washington.

Fred X. Hartman joined the Goddard staff recently as Head of the Safety and Health Office of the Organization and Personnel Division.

Before he came to Goddard, Hartman was the Assistant Director of Safety for the Army's Aberdeen Proving Ground. Prior to that assignment, he was an Ordnance Engineer at Aberdeen.

Mr. and Mrs. Hartman have two children, both married. Mrs. Hartman presently resides in Havre de Grace, Maryland and plans to join him soon.

Gerald F. Griffin Sr. has been assigned as the new Chief of the Management Services Division. He came to Goddard with a distinguished record of government service.

In 1960, after 25 years of service, Griffin retired from the military as a Lieutenant Colonel. His last assignment was Chief of the Inspection Division,



MEMBERS OF THE BOARD . . . At present, the Board of U. S. Civil Service Examiners is made up of three—Dr. Allen O. Gamble (left), Manpower Evaluation & Development Officer, Chairman, Dr. John A. O'Keefe, Assistant Chief of Goddard's Theoretical Division, and Gwynne R. Berry, Chief, Employment Section.

NASA STREAMLINES EMPLOYMENT PROCEDURE

NASA has issued employment announcement 252B, describing career professional opportunities in Aero-Space Technology. This examination is to be used for competitive appointments of persons seeking Federal employment. Positions will be filled through this examination for work in research, development, design, operations and administration. There will be no written test as such, but instead, rating will be based on an evaluation of the individual applicant's professional qualifications.

Under the new examination announcement, professional personnel now em-

ployed within Goddard will rate the applications, and registers of eligibles will be maintained by GSFC's Board of U. S. Civil Service Examiners. Dr. John A. O'Keefe, Assistant Chief of the Theoretical Division is Chairman of the Board.

As a result of this examination, some job titles will be changed. These new descriptive titles will eliminate others not presently indicative of actual work being performed in the Aero-Space field.

Copies of the new announcement are being distributed to all organizations. Additional copies are available in Room 153, Building 1, Greenbelt.

2nd Army, Inspector General Section.

During his career, he served with the Military Government in Germany, the Military Advisory Group to Japan, and with the Military Assistance Advisory Group with the Greek Army during the Greek Civil War, 1949-1960.

In World War II, Griffin was a Tank Battalion Commander with the 3rd Army

and again, with the 3rd Inf. Division in the Korean War.

Griffin's home town is Hartford, Connecticut. He is currently studying at the University of Maryland and working toward a Military Science Degree.

He and his wife, the former Sarah Marshall, and their two children, reside in nearby Odenton, Maryland.



Gerald F. Griffin Sr.



Fred X. Hartman



ONLY THE BEGINNING . . . for the machine tool section of the Fabrication Division. Craftsmen are performing operations on machines capable of precision to .0001 inch.

GSCF CAPABILITIES EXPANDING

In December, the Fabrication Division of the Office of Technical Services opened its own shops. Already, its precision lathes, bores, mills and other metal, wood and plastic working machinery are turning designs into finished products. Printed circuits from start to finish, electrodeposition, welding and sheet metal, are included in the Division's capabilities.

Maurice Levinsohn, Head of the Division is proud of the esprit d' corps of his staff. "A good example," he points

out, "is the fact that the Materials Unit has even adopted its own motto, 'Problems Solved Here.'" The function of this unit is to insure that Goddard utilizes the latest technological developments in the field of fabrication of standard and exotic materials.

With this shop capability now existing in the Fabrication Division, the GSCF marks another achievement toward becoming one of the Nation's leading space activities centers.



NIKE-ASP . . . Mr. Lee Horning (left) and Mr. Fontaine are shown checking concentricity of the antenna section for the Nike-ASP.

OGO

(Continued from Page 1)

an eccentric orbit, having an apogee of almost 10,000 miles and a perigee of 170 miles. An Atlas Agena B is scheduled to launch this mission, called EGO.

About nine months after this initial launch, a Thor Agena B will launch POGO, a polar orbit OGO, with a perigee of more than 170 miles and an apogee of about 650 miles. This satellite will be used chiefly to study the atmosphere and ionosphere, such as the unexplored regions above the poles.

SOLAR STORM AFFECTS ECHO ORBIT

Scientists at Goddard report that the severe solar storm which took place on November 12 produced a substantial change in the orbit of the 100-foot ECHO balloon satellite. The calculations which revealed the storm's effect were performed out by Dr. Robert Jastrow, Chief of the Theoretical Division and Robert Bryant, of his staff.

In brief, the increase in the drag probably indicated an increase in the average density of the air thru which Echo I moves although it may have been produced by electromagnetic effects associated with changes in the density and velocity of charged particles in the ionosphere. Regardless of the mechanism which produced the drag increase, it is significant that the response of a satellite to a specific flare has been observed in the case of Sputnik III and Echo I, whereas it has not been noted in the orbit of Vanguard I.

Scientists had previously discovered that the whole upper atmosphere rises and falls, or "breathes," in response to

STG BECOMES SEPARATE UNIT

Effective January 3, Space Task Group located at Langley Field, Virginia, became a separate NASA field unit. Prior to the separation, STG had reported administratively to the Goddard Space Flight Center.

In announcing the organizational change, NASA Administrator T. Keith Glennan said that the action was recognition of the autonomy already essentially established by Space Task Group.

Under the new organization, STG Director Robert R. Gilruth will work directly under Abe Silverstein, NASA director of Space Flight Programs, Washington, D. C.

STG was set up in October, 1958, with a specific directive to put into orbit and recover safely a manned satellite in order to investigate man's capabilities in space—Project Mercury. Last year, STG was assigned management responsibility for studies of Project Apollo—a design concept which contemplates carrying three men on Earth orbital and, eventually, circumlunar missions.

STG will continue to use supporting facilities and personnel from other NASA centers, Department of Defense and industry as needed to accomplish its missions.

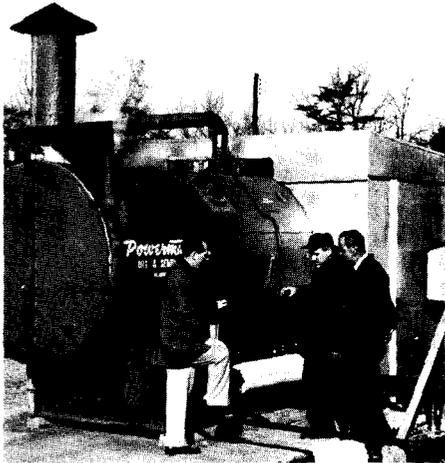
DISTRIBUTION OF GODDARD NEWS

Distribution of GODDARD NEWS is made from the Office of Public Information through the secretary of each Division, who in turn, routes copies to Branches and Sections.

The paper is published in sufficient quantity to provide every member of Goddard with a copy. Those who may have missed an issue—or who have not received copies—should contact their Division Secretary.

the general level of storm conditions on the surface of the sun. The response to a specific flare had been noted only once before, in 1959 in the case of Sputnik III.

Jastrow and Bryant believe that the detection of the solar storm effect on the ECHO I orbit may provide a clue to the actual mechanism by which solar particles and radiation heat the atmosphere. This, according to Dr. Jastrow, is one of the basic problems facing physicists in their effort to understand the influence of solar activity on the earth's atmosphere.



IT WON'T RUN WITHOUT WHEELS . . . but it did. Looking much like an old time railroad engine out of Disneyland, temporary boiler 1 has reached the end of the line and is being readied for removal. Shown talking over the plans for switchover are (l to r) Stu Snyder, Chief of the Plant Engineering Branch, Ira Beckner, Operating Engineer and Donald Forgan, Foreman of the Central Power Plant.

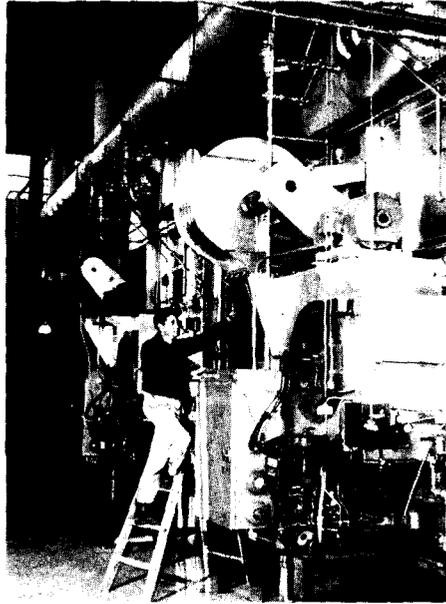
GSFC STEAMS AHEAD

Two GSFC pioneers will be mustered out of service on February 1, marking the close of one phase of "roughing it" at Goddard. These two "pioneers" have worked long and hard, and largely without recognition for their service. Yet all of us have benefited by their warmth and comfort. Their departure will not, however, cause a hardship for anyone. In fact, we will benefit from their removal. The two "pioneer members" of Goddard being taken out of service on February 1 are temporary boilers 1 and 2. (See photo above.)

Progress has overtaken these two temporary helpers, for they are being replaced by a brand new central power plant. The new plant has already begun supplying the heating needs of Buildings 1, 2, 3, and 4. The new facility is on a round-the-clock operation, manned on a three-shift basis. The two new boilers having reported for duty will be joined in the future by two assistants.

GODDARD NEWS

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WE'RE GROWING . . . and we've got the new facilities to prove it. William O'Connor, Operating Engineer, makes an inspection of one of the new boilers in the central power plant being readied for operation in February.

GODDARD READING ROOM

The Goddard Library Reading Room began operation on November 23, 1960. Located in Building 1 in the large conference room adjacent to the cafeteria, the library is open Monday through Friday, 8 AM to 4:30 PM. Mrs. Eileen Budd, librarian, is in charge and may be contacted by calling extension 530.

The initial collection consists of issues of selected journals. Scores of technical and semi-technical magazines are presently available. Material may be borrowed on two week loan; books and journals not in the reading room can be obtained through interlibrary loan by Mrs. Budd.



GSFC's READING ROOM is finding numerous users. Since its opening, many scientists, engineers and technicians have availed themselves of the reading aids to be found on the shelves in the reading room. Dr. Alan Galbraith (left) and Herman H. Lowell (right) make use of library publications as Mrs. Eileen Budd smiles approvingly.

GODDARD SPACE FLIGHT CENTER DUCKPIN LEAGUE STANDINGS

(As of January 10, 1961)

Team Name	Games	
	Won	Lost
1. OAO's	18	2
2. Cosmics	16	4
3. One Shots	16	4
4. Mogenbaiters	15	5
5. Coolies	13	7
6. Half Asps	13	7
7. Rackets	11	9
8. Clews	11	9
9. Guided Muscles	11	9
10. Spoilers	10	10
11. NASAcrats	10	10
12. Mark IV	9	11
13. Boosters	9	11
14. Budget Testers	9	14
15. Coders	4	12
16. Orbitors	3	13

GODDARD SPACE FLIGHT CENTER TENPIN LEAGUE STANDINGS

(As of January 10, 1961)

Team Name	Games	
	Won	Lost
1. Mis Guided's	12	3
2. Tiros IV	12	3
3. Quicksilver's	10	5
4. Sidewinders	10	5
5. Bluffers	8	7
6. Checkmates	8	7
7. Data Tones	7	8
8. Ducklings	6	9
9. Untouchables	6	9
10. Bob Cats	4	11
11. Pace Setters	4	11
12. Space Kats	3	12
13. Explorers	2	1

The transfer of the seat of library operations to Greenbelt is planned to take place within several months. Meanwhile the facilities of the Reading Room continue to attract increasing members of knowledge-seekers.