

Satellite Launchings Spur Interest in Study of Solar System, Space Travel

Editors Note—Newsday people aren't wandering whether we'll ever reach the planets. Today's question is: When? So now is a good time to look at the solar system in which we live.

By JOHN A. BARBOUR
AP Science Reporter

NEW YORK, Nov. 7 (AP)—What with Russia's Sputniks, and the gaudy possibilities of interplanetary travel to come, our solar system seems to be shrinking some what like the earth did when airplanes came into use.

Fortunately, the solar system being our celestial habitat, has been closely studied to provide effective bases for calculations fundamental to the space travelers of the future.

Let's look at some of these fundamentals. Gravity is one of them. It is the sun's gravity that controls the course of the planets.

The Earth is one of nine planets—and a puny one at that.

Jupiter—Biggest
Jupiter, the biggest, has a diameter 10 times as large as Earth's.

In fact two of Jupiter's moons are bigger than Mercury, the smallest of the planets.

To get an idea of the neighborhood that these planets patrol, let's suppose that the Earth and the Sun would be just 3 inches from its scaring surface. Pluto, the farthest, would be almost 40 feet away.

Venus would be little more than 8 inches from the sun. Mars would be 1 1/2 feet, Jupiter 5 feet, Saturn 9 1/2 feet, Uranus more than 19 feet and Neptune about 30 feet.

In space, Pluto's most distant orbit is 3,670,000,000 miles from the sun. Strung out in an uneven and changing parade in their own orbits are the other planets.

But there is only one boss over all of this area. If you lumped all the bodies in the planetary system together, you would still have to approach the size of the Sun.

Planets Different
Unlike as they are in their obedience to the Sun, the planets are very different in other ways. In fact they hardly seem to belong to the same family.

Jupiter for instance has 12 moons. Mercury and Venus have none.

Mercury takes just about 88 days to get around the Sun. Pluto takes 248 years to do the same trip. Mercury, because it orbits so close to the Sun, travels only a small fraction of the distance Pluto must travel.

Venus, like the Earth, has an atmosphere. Astronomers don't know how deep it is or whether it will support life, but there has been speculation in science as well as in fiction that there is life on Venus.

Heavy cloud layers and the inability to see permanent markings on Venus have prevented scientists from learning even how fast the planet rotates.

We do know that Earth and Venus are almost the same size—differing only a couple of hundred miles.

Mars 'Has Life'
Mars, unlike Venus, has two moons, canal-like patterns on its surface, and a popular reputation on earth. Most people think of Mars as being in the "Have life, will travel" category.

We know Mars' atmosphere is remarkably clear, but our own shimmers, hampering our vision.

There are some slight clouds. Temperatures vary greatly on Mars, but many astronomers believe there is at least plant life on the planet.

In sharp contrast to Venus, Earth and Mars are those planets farther out in space and little Mercury which skitters along too near the Sun for comfort.

For Mercury, a peculiar bit of mathematics makes for an unpleasant climate. While it takes Mercury 88 days to go around the Sun, it takes about the same amount of time for the planet to rotate once on its axis.

This leaves poor Mercury with the same side of its face turned to the Sun almost all the time. At the opposite end of the planetary ladder are the big planets—Jupiter, Saturn, Uranus and Neptune. They are especially inhospitable and cold. In fact temperatures might range to 300 degrees below zero on Neptune for example.

If this won't dissuade visitors, the planets are also blanketed with poisonous gases—mostly a fog of ammonia crystals and methane gas. This lies across huge ice caps on the planetary surfaces. Saturn carries a whole barrage of small satellites in the form of

Earth. Here, in 23 hours and 56 minutes, man rotates with the Earth around its axis, thus enjoying night and day. The Sun gives light by day and the Moon, some 238,000 miles away, gives a more discrete light at night.

The Earth's axis is tilted, so that the year-long travel around the Sun offers different portions of Earth's body to be warmed at different times. Man calls this the seasons. Man calls this the seasons. Man calls this the seasons.

Of all the planets, none is as cozy and comfortable as the Earth has ample water, oxygen and other necessities to support man in the manner to which he has become accustomed. In fact Earth has been a good home for many years.

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Ike's New Science Aide to Act 'As Fast as Possible'

(Story also on page 1.)
CAMBRIDGE, Mass., Nov. 7 (AP)—James R. Killian Jr., 53, president of Massachusetts Institute of Technology, took his new appointment as special scientific assistant to President Eisenhower right in stride tonight.

He issued a brief statement in which he said he will "move as rapidly as possible" to set up an organization of scientific and engineering talent for development of the nation's defenses.

But he flatly declined to comment to reporters' questions on whether he intended to set up any "crash programs" for satellites, rockets or even expansion of education in the sciences.

In a 15-minute press conference, Dr. Killian parried most of the newsmen's questions by referring them either to the statement he issued or a copy of the text of the President's speech.

President Eisenhower announced the appointment of Dr. Killian to a nationwide television and radio audience from the White House.

Dr. Killian said he knew of his appointment about 10 days ago. But it was a well-kept secret at MIT.

A crowd of 100 of the faculty heard the speech in the lounge of the Faculty Club and the first mention of Dr. Killian's name touched off a round of cheers in that group.

Dr. Killian did say that he plans to "tap off here and there in the new job" in Washington. He said he will go to Washington next week.

He said he expects to set up a small staff of full-time aides and to call upon scientists and engineers from all parts of the country to assist him on a part-time or full-time basis for varying periods.

Dr. Killian, in his prepared statement, said: "I shall move as rapidly as possible to marshal the best scientific and engineering judgment and creative talent in the United States and to make it available to the President for the formulation of national policy which involves science and technology.

Means to Integrate
"The President has provided a means to integrate American science in every proper way with national policymaking and I shall seek to facilitate this by every means at my disposal.

"A very strong scientific advisory group is an essential part of the plan and the recruiting of this group will proceed with the utmost dispatch."

Research Effort
4. If Congress does this, the President said, he will support—along the lines of an agreement recently reached with British Prime Minister Macmillan—a scientific committee to carry out an enlarged research effort within the North Atlantic Treaty Organization.

Eisenhower said "similar action" will be studied for the Southeast Asia Treaty Organization and "comparable organizations."

To help carry out these measures, he said, Secretary of State Dulles will appoint a science adviser to himself and science attaches in appropriate places abroad.

Eisenhower spoke out against a background of charges by Democratic congressional leaders, and some Republicans, that the administration has been complacent about Russian satellite launchings and other advances in the missile field.

At 53, he has been president of one of the country's leading engineering schools—Massachusetts Institute of Technology—for nine years.

His associates know him as a methodical planner, but also as one who will slash through red tape to handle an emergency when the occasion demands.

A native of Blacksburg, S.C., Dr. Killian worked his way up from undergraduate to president of MIT in 24 years. He was the first Tech graduate to head the sprawling engineering school on the banks of the Charles River.

At MIT Since 1926
Dr. Killian joined the MIT staff soon after his graduation in 1926 and has been with it ever since, rolling up administrative experience which carried him to the vice presidency in 1945 and the presidency in 1948.

During his nine years at the helm, Dr. Killian has kept MIT in pace with the rapid advances of science. He bases his administration on teamwork bound together by common ideals of education, research and public service.

During World War II when the scientific and engineering resources of MIT were mobilized for service to the nation in research, Dr. Killian shared the administrative responsibility with then President Carl K. Compton.

Anti-Tardiness Drive
NEW YORK (AP)—Producer David Merrick is enforcing promptness from first-nighters, a notoriously tardy group of fans.

Merrick closed the door promptly by the curtain went up at the opening performances of "Look Back in Anger" and "Romanoff and Juliet." Latecomers had to wait in the lobby until intermission.

Merrick explained that he does not want to have "the critics disturbed" at his shows.

Glaring Deficiency
He said his "scientific friend" tell him that one of the nation's most glaring deficiencies "is the failure of us in this country to give high enough priority to scientific education and to the place of science in our national life."

These advisers, Eisenhower went on, believe a second critical need is to give higher priority to basic research both in government and private industry.

The President said he would have more to say about these long-range requirements next week, presumably in his Nov. 13 speech at Oklahoma City. This is one of several addresses he has scheduled to reassure the American people about the nation's scientific, military and economic welfare.

He said the United States has had for some years enough striking power "to bring near annihilation" to any aggressor.

He reviewed the country's missile program, saying 38 different types now are either in operation or under development.

President Speaks to Calm U.S.

(Story also on Page 1.)
WASHINGTON, Nov. 7 (AP)—President Eisenhower, speaking to the nation tonight as the Russians disclosed new military might in Moscow, declared:

1. He ordered Secretary of Defense McElroy to make certain that the Pentagon's guided missile director "is clothed with all the authority that the secretary himself possesses in this field, so that no administrative or inter-service block can occur."

By missile director, Eisenhower was referring to William M. Holaday, McElroy's assistant for guided missiles. Holaday has been a coordinating agent and McElroy himself has taken a hand in the missile competition situation.

2. Any new program involving missiles will, whenever possible, be put under a single manager and administered without regard to the separate services."

3. Congress will be asked to remove legal barriers to "the exchange of appropriate technological information with friendly countries."

This apparently meant the lawmakers will be asked to amend the atomic energy law so that this country can give more accurate data to Great Britain and other allies.

4. If Congress does this, the