

Decision to Launch First Satellite Marks Opening of Space Travel to Man

Editor's note: Willy Ley is one of the nation's best-known authorities on the subject of interplanetary travel. His book, "Rocket Missiles and Space Travel," is considered the standard work on the subject. He was born in Germany and was one of the founders of the German Society for space travel. He has been a United States citizen for more than 10 years. In the following dispatch Ley analyzes the significance of the Washington announcement on plans for a satellite.

By WILLY LEY
As Told To United Press
 Highlands, N. J. — (U.P.) — The decision to launch the first artificial unmanned satellite opens the age of space travel to man. The satellite announced Friday is likely to be small and comparatively simple and will be launched in such a way that it won't last long. But, it will be the first step into space and will be followed by more just

as the first airplane led to more and bigger airplanes. The second satellite will no doubt be bigger, more elaborate and longer-lasting. The third or fourth may well carry a television camera to show us what the planet earth looks like when seen from space. By that time, a man-carrying rocket ship will be launched into an orbit around the earth and after that engineers will begin to plan manned space stations.

Known Since 1925
 Rocket experts have known since 1925, when there were very few such experts, that an artificial satellite was a technological possibility but needed the development of large liquid fuel rockets to become reality. In principle, the problem is not very difficult. If a rocket, or missile, is moving outside earth's atmosphere with the velocity of four and one-half miles per second, about three times as fast as the fastest missile has accomplished so far, it will not return to the ground. It is by no means outside the earth's gravity but the speed of the missile and the gravitational pull of the earth, will balance each other. The curve described by the missile and the surface of the earth will form two concentric circles.

Not Closed Circle
 Only if the missile is placed at a height where there is still a small amount of air resistance left, would it lose both speed and altitude. In other words its orbit will not be a closed circle but a tight spiral and when it reaches sufficiently dense layers of the atmosphere it will burn up like a falling star.

To put a missile into such an orbit will need what rocket engineers call a three-stage rocket, which means a rocket consisting of three sections all independently powered. As the fuel supply of the first stage becomes exhausted the second stage will take over, leaving the burned out first stage behind. A minute or so later the same performance will be repeated by a third stage which will leave the second stage behind. Only the third stage will reach space, the first two will fall to the ground or more pre-

cisely into the ocean where they will do no harm.

Various Types in Existence

There are various types of rockets and take-off boosters in existence right now which could be combined into a three-stage rocket capable of going fast enough. The important thing, however, is not the third stage going into space, but the payload carried by the third stage. This so-called payload will be a package of instruments, all of them hooked up with an automatic radio transmitter so that the messages from the instruments can be received on the ground even though the rocket is unmanned.

These instruments will tell the ground station or stations to what extent the skin of the missile is heated by the sun. When the missile enters the shadow of the earth as it must on its revolutions around the planet the instruments will report how quickly this skin temperature drops. The instruments will report the number of cosmic rays hitting the missile and will report the impact of particles of cosmic dust. Larger meteorites are too

rare to worry about.

Low Aim At First

At least the first of the artificial satellites will be placed low enough so that there is a little air resistance left to slow it down. Scientists are interested in how quickly it slows down because that is an indication of the amount of air left at a height of say—200 miles.

If the missile is put into an orbit that goes over the poles or very near the poles, its path will be slightly disturbed by the bulge around the equator, where the earth is somewhat bigger than from pole to pole. That this will happen can be predicted but scientists want to know the degree of disturbance. Knowing this precisely will give us a better idea of the exact shape of the earth.

The artificial satellite is going to be a major peaceful scientific accomplishment, but its main importance will be that it will be followed by others.

And after that, in time, there will be a manned artificial satellite and eventually travel through space.

Subcommittee to Give Own Verdict In Talbot Case

Washington — (U.P.) — Chairman John L. McClellan (D-Ark.) said Saturday the Senate investigating subcommittee "in due time" will render its own verdict on the propriety of Air Secretary Harold E. Talbot's outside business activities.

He said the subcommittee will not "hurry" its report and indicated it will not be issued until after President Eisenhower has announced his decision about firing or keeping Talbot.

Talbot has flatly denied he plans to resign. He made that statement Friday night after several influential Republican senators said his departure was "imminent."

Some Disagreement Seen
 McClellan declined to say whether he expects the subcommittee to make a favorable or unfavorable report. He said there is likely to be "some disagreement" among subcommittee members.

The Arkansas Democrat pointed out that President Eisenhower already has a complete transcript of the subcommittee's hearings on Talbot's association with the Paul B. Mulligan Management Engineering firm, of New York. Mr. Eisenhower has said he will make a personal study of the record and then decide whether Talbot violated a proper standard of ethics by drumming up business for the Mulligan firm from his Pentagon office.

Five Years Given in Beating at Hood River

Hood River — (U.P.) — Doss Matchen, transient harvest worker, Friday was sentenced to five years in the state penitentiary on a manslaughter charge. Matchen had pleaded guilty of the fatal kicking of another field hand July 9 at Hood River.

Robert Easley, 48, died in The Dalles hospital from injuries suffered in a fight with other workers.

Hood River County Circuit Judge Malcolm Wilkinson disregarded a prosecutor's recommendation for probation and imposed the prison term.

Northwest Wheat Crop Down 20 Per Cent

Spokane — (U.P.) — Pacific Northwest wheat production will be down about 20 per cent this year due to bad weather and lower acreage allotments. Pete Stallcop, Northwest Grain Dealers Association secretary, said Friday.

"We'll still produce more wheat than we can use locally or in exports equal to last year," Stallcop said.

The Northwest wheat surplus July 1, was 131,000,000 bushels compared to 7,000,000 bushels three years ago. Stallcop said the carryover for wheat, oats and barley July 1 was about 166,000,000 bushels compared to 12,000,000 bushels three years ago.

More than 40,000 board feet of lumber can be sawed out of one big Douglas fir tree growing in California.



SERIOUS EXPRESSIONS mark meeting of Air Secretary Harold Talbot (right) and Sen. Stuart Symington (D), Mo., of Senate group probing Talbot's private business affairs, before committee session. Symington is ex-secretary. (International)

On The Side

By E. V. Durling

(Distributed by King Features Syndicate, Inc.)

It was after a delightful July afternoon at the Brighton Beach Race Track, followed by a swim and then a dinner at the Manhattan Beach Hotel that "Honey Boy" Evans was inspired to exclaim, "There's nothing like the good old summer time." In the party were Ren Shields and Blanche Ring. The remark of Evans gave Ren an idea for a lyric which is that of the perennially popular ditty titled "In the Good Old Summer Time." Evans wrote the music for the song. Blanche Ring introduced it and popularized it in the musical show "The Defender." That was 53 years ago. The Brighton Beach Race Track has long passed from the scene. Its place as a delightful spot to spend a day in the good old summer time has been taken by the Monmouth Park Race Course which is now just a breeze from Broadway. In fact, you can get from Broadway and 42nd st. to Monmouth Park in half the time it took the turf enthusiasts of the yesteryear to get from that same location to Brighton Beach.

Briefly

Where in this country is the finest pumpernickle made? Why, sir, it is in Brooklyn. The best Irish soda bread is also made in the beautiful borough across the bridge. . . Have you a bachelorette daughter? Is she ever con-

Sidelights

Note Gene Kelly referred to as "the world's greatest modern dancer." I'll take Fred Astaire for that title. I believe George Tappas is as good a dancer as Kelly. . . Mr. and Mrs. Michael O'Hara of Bangor, County Down, Ireland, have eight sons, all of whom are priests. If that isn't the record for number of priests in the same family, what is?

Horses and Women

How is your wife's figure adapted to the ready to wear purchase of attire? Where was the dress she is wearing today made? Probably somewhere on or near Seventh ave and 36th st., Manhattan. In that comparatively small section of Seventh ave., known as the garment center, are made three out of every four gowns worn by women of this country. By the way, have you a young daughter who has some artistic talent? Give a thought to having her study to be a dress designer. A good dress designer can now earn up to \$50,000 a year in New York.

Recorders
 Now available is a recorder so small it can be concealed in a pocket. Microphone for this recorder is concealed in a wrist watch. The machine makes a complete recording of all conversations in which the possessor participates. So once more, sir, I urge you to be guarded in what you say. You can never tell nowadays when your conversation is being recorded.

Asides
 Minden, Nev., where Clark Gable recently married Kay Spreckles, was where Mary Pickford divorced Owen Moore in order to marry Douglas Fairbanks. That was 35 years ago.

Brooks Electric Files Incorporation Articles

Salem — (U.P.) — Articles of incorporation have been filed here for Brooks Electric and Plumbing Co., Inc., Medford. They were signed by Charles W. Brooks, H. W. Brooks and J. E. Brooks.

The Brooks brothers have been in the electrical business together here for about seven years and for the past two years also have been in the plumbing business. No change in policies or management are planned.



INSPECTING RUSSIAN FARMS, U. S. delegation visits poultry shed on Soviet State Farm near Moscow where experts discussed methods used in increasing output. (International)

Model Weds Millionaire Aboard 'Cupid's Express' 5,000 Feet Over Iowa Town

Aboard Cupid's Express Over Northwood, Ia. — (U.P.) — The model and the millionaire were married in a plane 5,000 feet above sun-baked Northwood, Ia., Saturday.

But it was warm here too as Marion G. Sutton, 27, Minneapolis model, and Edward L. Williams, 52, Kansas City cemetery millionaire, exchanged vows and elaborate diamond wedding rings in the climax of a much-publicized aerial marriage that cost an estimated \$25,000.

Cool in Airliner

It was cool and comfortable in the chartered Braniff Airliner, named "Cupid's Express" for the flight, before the take-off from Wold-Chamberlain Field at Minneapolis, Minn.

But it was warm in the plane as it circled at 5,000 feet, an altitude selected to be sure of remaining within the limits of Worth county where the Justice of the Peace who performed the ceremony holds a license.

Justice of Peace Morris Bakketun of Northwood, who has married more than 4,000 couples on the ground, recited a routine wedding ritual — before a backdrop of baby orchids and white satin, 42 guests and newsmen and photographers.

During the flight, Miss Sutton and Williams sat on opposite sides of the aisle accompanied, respectively, by their bride's maid and best man.

Spoke in Firm Voice

Miss Sutton admitted to a reporter during the flight that she was "a little shaky" both spoke their "I do" in voices firm enough to be heard over the sound of the plane's engines and propellers.

And several more times at the request of photographers.

Miss Sutton, who became Mrs. Williams a moment earlier, smiled and said "sure" to the photographers.

Williams grinned too and said "I don't mind a bit." Skywriters hired for the occasion were frustrated by winds which distorted and eventually erased their efforts to spell out "just wed" and draw hearts in the sky.

Kelso Woman Dies in Wreck; Children Hurt

Longview, Wash. — (U.P.) — Mrs. Alberta Reams, 30, Kelso, Wash., was fatally injured and her two children injured Saturday when the pickup truck in which they were riding hit a traffic divider in the California Way underpass just east of here.

Injured were Richard Reams, 10, and his sisters, Virginia, 9. They were taken to St. Johns hospital where attendants said they suffered broken right legs.

Driver of the truck was J. R. Reams, 28, the husband and father. He was taken to St. Johns but attendants said he suffered no apparent injuries.

Oregon, Tennessee and Utah have become steel making states since the beginning of World War II.

Fourteen of the states now have an annual steel production capacity in excess of 1,500,000 tons.

The attorney general became a member of the cabinet in about 1814.

Blood Donors Fail To Help Drain Boy

Minneapolis — (U.P.) — The son of an Oregon police chief who was given blood by city policemen died Friday in University of Minnesota hospital.

Gary Winslow, Drain, Ore., died following an operation to correct a defect in his heart wall.

Gary's father, Elmer, is chief of police in Drain. When he arrived here several days ago and learned 18 pints of blood would be needed to keep Gary alive during the operation in which his heart was tied off, he didn't know where to turn.

He contacted Inspector of Detectives Pat Walling for advice. Instead, he got offers of blood from 24 policemen.

Young Prison Escapee Seized Near Aumsville

Salem — (U.P.) — Millard Raymond Williams, 19, was picked up by state police near Aumsville, at about 10 p.m. Friday, some 6½ hours after he escaped from the state prison annex.

Prison officials said the youth apparently "bailed out" of a work detail truck as it returned to the annex. Williams was serving a 2½-year sentence from Deschutes county for larceny of livestock.

Russian Farmers On Nebraska Tour, Swelter in Heat

Wahoo, Neb. — (U.P.) — Willing Russian farm leaders rode through powder-dry Nebraska back country Saturday as heat forced two of the visitors to quit temporarily.

The Russians, travelling in near 100 degree temperatures, rode over dust-filled gravel roads south of here to visit a 1,900 acre watershed.

Two of the visitors returned to their air-conditioned hotel rooms in Omaha.

Delegation Leader Vladimir V. Matskevich and Aleksandr Tulipnikov, the only English-speaking members of the group, cut short their visit here because of the heat. They were to rest in Omaha briefly.

The Russians have had nothing but hot, sticky weather since they began their tour two weeks ago.

In addition to the watershed tour, the Russians, dressed casually, visited the 500-acre W. A. Steavenson farm and a bull stud farm owned by the Nebraska Daily Breeds association, on a co-operative basis.

Soil Conservation Technician Bill Ralston guided the Russians through the watershed, a land treatment program featuring the use of small dams. Built by matching federal, state and local funds, the watershed is one of 62 similar projects throughout the nation.

Of chief interest to the Russians was the costs involved in construction. They asked pointed questions about each dam

FOR RENT
Tape Recorders
 Also
 1200 ft. Tape—Special
 \$3.50—including Can
Ander's Photo Shop
 232 E. Main Ph. 2-5646

DR. CORNELL SABO
 ANNOUNCES
 His Return from Military Service and the
RE-OPENING OF HIS OFFICE
 for the practice of
DENTISTRY
 305 Medical Center Bldg. Phone 3-3934

ANTELOPE 4-H COMMUNITY FAIR
Wednesday, Aug. 3
ELBERT BIGHAM RANCH
 ★ Judging in the Morning
 ★ Showmanship in the Afternoon
PUBLIC INVITED
 Lunch Will Be Served at Noon for a Nominal Fee

WHO CAN HELP YOUR HEARING?
 C. R. ADAMSON
Can!
 I am a trained Sonotone Hearing Aid Consultant

SONOTONE
 C. R. Adamson, Dist. Mgr.
 839 East Jackson Blvd.

By training and experience with many different kinds of hearing loss, I have been able to bring better hearing to hundreds. Now I have another wonderful new hearing aid to help break through that iron curtain of deafness.
 This is the micro-midget Sonotone "100."
 It is as small as a matchbook and weighs about one ounce.
 It's not a gadget designed to attract by just being small. This is a real aid to HEARING, with traditional built-in Sonotone quality.
 When you do business with Sonotone, you invest in a complete hearing service and join thousands of happy users in a proven better hearing program.

You Are Invited to Attend Our Opening!
MEDFORD'S NEW EAST JACKSON BUSINESS CENTER
Monday, Thru August 4th—601-621 E. Jackson
WIN CASH PRIZE \$50
 Enter Our "Name The Building" Contest
 Leave your entry with one of the businesses listed below:
 Our New Building Needs a Name!
Free Valuable Prizes
 Given by Each of the Merchants Listed in This New Building . . .
 COME IN and REGISTER
 ● Bud Hayes East Side Beverage Shop
 ● Mike Morris Seat Cover Center
 ● Ekerson's Paint & Roof Store
 ● Glassheat of Southern Oregon
Contest Closes Thursday, Aug. 4

Opening Specials
Fowler Glass Lined Water Heater
 40 gal. round. 20 year warranty. Reg. \$129.95, Sale **\$104.50**
Table Top Water Heater. 40 gallon. Reg. \$162.95, Sale **\$124.50**
Shower Cabinet, 32"x32". Gleaming white. Complete with fittings **\$54.00**
White Closet Seats. White they last **\$3.99**
 Reduced Prices on All Air Conditioners
 SEE US FOR ● HEATING ● AIR CONDITIONING ● REFRIGERATION—SALES & SERVICE
Modern Plumbing
 AND SHEET METAL COMPANY
 613 E. Jackson Phone 3-5368