

Reds Say New Power Source Developed to Propel Sputnik II

WASHINGTON, Nov. 4 (AP)—A Russian scientist disclosed tonight that new sources of power were developed to shoot Sputnik II and its canine passenger into an orbit around the earth.

A Moscow radio broadcast quoted "academician Dikushin" on the new power and instruments used to get the big satellite aloft but gave no details.

A Polish scientist, Olgierd Wolczko, rejected the theory of nuclear propulsion in favor of one that the rocket carrier was powered by a fusion—chemical burning—of borax and hydrogen.

He estimated this would produce twice the power of other known rocket fuels. He added in Warsaw that uranium piles are still too big and heavy for use in a rocket.

In Washington tonight, a Project Vanguard astronomer said Sputnik II's orbit carries it closer to the earth than Sputnik I. He said it is therefore likely that the new satellite will plunge to earth sooner than the original one. He estimated Sputnik I will fall about the end of January.

The government scientist, who asked not to be quoted by name, said his latest calculations put Sputnik II in a "highly eccentric" orbit ranging from 1057 miles from earth at its farthest point down to 103 miles at the nearest.

Russia's successful launching of a second satellite—a 1120 pounder

circling the globe every 103.7 minutes with a live dog aboard—raised these big questions in many countries:

• Is the moon the next Soviet objective?

• What will the United States do to recapture some of the scientific prestige Russia has hoisted on its powerful rockets?

• Will the dog, a female called Laika (Little Barker) get back to earth alive?

There were no positive answers to these and many other questions evoked by the newest conquest of space, but speculation filled the minds of scientists and statesmen everywhere.

The White House, in a terse statement, said President Eisenhower and his science and security advisers are carefully analyzing the significance of Russia's new accomplishment.

Soviet planetarium officials in Moscow suggested the dog aboard Sputnik II may be parachuted back to earth in an air-conditioned container for scientific study. One rocket expert implied, however, that the dog would die in her harness within the satellite.

Clyde Tombaugh, discoverer of planet Pluto, believes it is possible that the Russians already have fixed a rocket at the moon, planning for a hit on Nov. 7, the 40th anniversary of the Russian Revolution. The moon is about 235,000 miles away.

"They would have to start several days ahead of impact to travel

by the most economical method," Tombaugh said at Las Cruces, N.M. "If, therefore, they intend to land on the moon at or near the time of the lunar eclipse of Nov. 7 they may already have fired."

Ivan Alexanderson, director of Moscow radio's English language news division, said the Russians plan to launch a moon rocket "soon." In a telephone conversation with Richard Johnson of Montreal's radio station CFCF, Alexanderson said the chief purpose of the venture would be to prove beyond doubt man's ability to navigate space and live.

At Cambridge, Mass., where the Smithsonian Institution has an astronomical observatory, Dr. Fred L. Whipple, the director, said the Russians would need about 40 per cent more power than went into Sputnik II to send the rocket to the moon.

Dr. Whipple suggested an atomic bomb would be the best way to mark a hit on the moon's surface.

Meanwhile the new Soviet satellite launched Saturday night continued on its historic course at an estimated speed of 17,840 m.p.h. It was in an orbit that reached more than 1000 miles out in space at its farthest point.

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Russians Quit UN Arms Talks

UNITED NATIONS, N.Y., Nov. 4 (AP)—The Soviet Union announced today its withdrawal from all disarmament negotiations being carried out under present U.N. machinery.

Soviet Dep. Foreign Minister Vasily V. Kuznetsov made the announcement to the U.N.'s 82-nation Political Committee toward the end of three weeks of disarmament debate.

U.S. Ambassador Henry Cabot Lodge expressed hope before the committee that the Russians were voicing "just a passing thought, and wiser counsels will prevail."

He added: "We do not believe that any nation wishes to stand for all future time before the world and all recorded history as the nation which broke up humanity's efforts to achieve a disarmament agreement."

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