

FOR ARCTIC SKY

Not Warheads, Delicate Instruments In Rockets

FORT CHURCHILL, Man. (CP) Rockets will streak into the sub-Arctic sky here this fall in preliminary experiments aimed at studying the earth and its surrounding gases at heights never examined before.

The experiments will be launched near this joint Canadian-American military base in northern Canada, 610 miles north of Winnipeg, late this month or early in November. They are being conducted by Canadian and American scientists in preparation for the International Geophysical Year which starts in July 1957, and runs for 18 months.

During that period, rockets similar to those which will be fired into the ionosphere this fall, will have their nose covers packed with delicate recording instruments.

The work here will form part of a co-operative scientific endeavor to find out everything possible about the universe in general and the earth in particular. About 40 countries will participate.

side the head end. The instruments will measure density, temperature, pressure and wind velocity at heights never studied before. They will also record the effects of the sun's light at high altitudes, the northern lights, cosmic rays and the earth's magnetism.

The Aerobee, 15 inches in diameter, is designed to carry 150 pounds of scientific equipment 180 miles into the air or a 120-pound load up 200 miles.

A range safety officer will make sure no rockets stray from its projected course. He will press a button that will cut off the rocket's fuel and bring it to earth. Under normal flight, projectiles will run out of fuel and fall about 30 miles from the tower.

Lt. Col. Smith says "dead" rockets will not have to be recovered for the experiment to be a

success. Most of the information will have been transmitted to observers while rockets are in flight. However, efforts will be made to recover those which had cameras aboard.

The scientists will also attempt to determine the chemical content of the upper atmosphere above the range of sound balloons.

IMPORTANT PROJECT

Dr. O. M. Solandt, former chairman of the Defence Research Board of Canada and now assistant vice-president of research and development for the Canadian National Railways, visited the rocket site recently. He called it "one of the largest and most important of all projects in IGY."

"It will increase the knowledge and measurement of a wide range of physical constants in a part of the world where it has never been measured before," he said.

Charge Vancouver Fireman In The Forgery Of \$936,000 Will

VANCOUVER, (CP) — Gilbert Campbell, 50-year-old fireman, charged with forging a \$936,000 will, was released on \$20,000 bail Friday a few hours after his arrest. He was remanded a week.

Campbell, named as a \$600,000 beneficiary in the will is charged with forgery, conspiracy and attempting to cheat the heirs of James Thomson, pioneer hotelman, who died here in December 1948.

The courts ruled the will a forgery in 1951. The day court proceedings opened Campbell dropped his claim to any part of the estate.

No will was found at the time of Mr. Thomson's death, but a year later the will naming Camp-

bell a beneficiary was located in dust-covered files in a Vancouver real estate office.

Detective Ken Harrison worked on the case for five years, and placing his report before the attorney-general.

Under court distribution Mrs. Margaret Millen of Edmonton was to get half of the \$900,000 estate and the other half was to go to the five children of the late Mrs. Anne Thomson Wilson of Calgary. Mrs. Millen and Mrs. Wilson were

RELIGIOUS SHRINE

The stately new Basilica of Ste. Anne de Beaupre, Que., stands near the site of the first chapel started in 1658.

ACCESSIBLE SITE

Twelve miles east of this historic fort on the west coast of Hudson Bay, the multi-million-dollar rocket-firing site is nearing completion. It was chosen as one of the North American centres for the International Geophysical Year because it is readily accessible and lies where the Arctic auroral light were northern lights can be easily seen.

A strange "science fiction" structure, shaped like an inverted funnel, pokes imposingly 120 feet into the sky above the trees. Concrete-lined pipes to carry water, sewage, steam for heating and electric power have already been planted throughout the camp.

Miles of road have been laid through muskeg. Hundreds of cubic yards of concrete have been poured for foundations of scientific devices.

The base is being built with money from the U. S. and construction cost has been estimated at more than \$4,000,000. American scientists will direct the rocket flights while Canadian scientists will make ground observations.

PEACEFUL MISSION

In charge of rocket firing is Lt. Col. L. G. Smith of the United States army or defence corps, named to handle the project two years ago after the U. S. accepted Canada's invitation to stage it near here. And he emphasizes the peaceful nature of his mission.

"These are rockets and will have nose cones where the scientific instruments are placed. You have warheads on guided missiles. This is a scientific program entirely."

Under Lt. Col. Smith are officers of the United States army, navy and air force. Needed to instrument and launch the rockets will be a permanent crew of 105 persons.

In the tests this year Aerobee and Dan rockets, fueled with high-grade alcohol, will roar at 5,200 feet a second—roughly twice the speed of a .303 calibre bullet—into the sky. Their destination will be the ionosphere, the upper region of rarified, ionized gas between 50 and 250 miles above the earth which reflects radio waves in long-distance communication.

The first recording rocket will be launched early in the International Geophysical Year. About 80 of the 30-foot Aerobees and 14-foot Dons are expected to be fired in the 18-month period.

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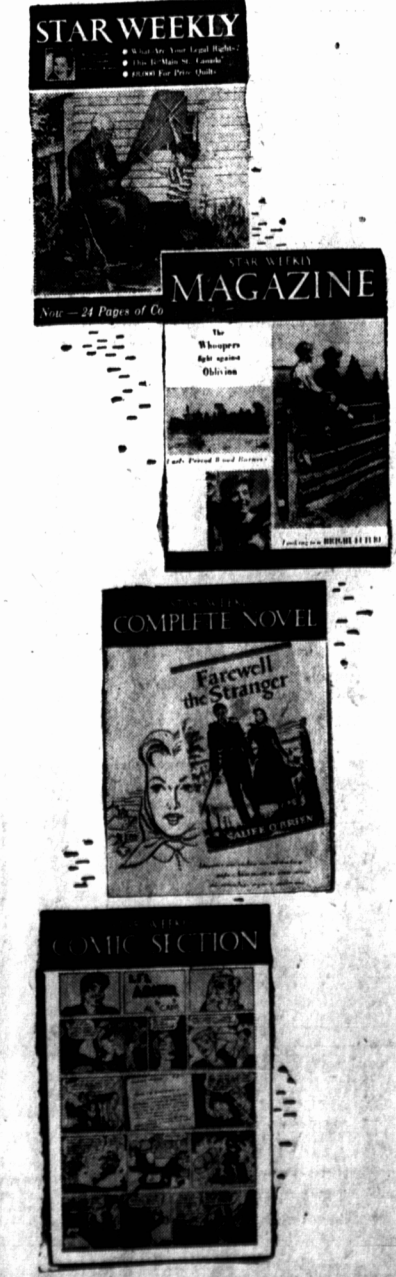
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