

# Atom Bomb For Cancer

Big New Achievement In Field of Medicine

REGINA — The cobalt bomb is one of the first major applications of atomic energy to the field of medicine, says Dr. H. E. Johns of the University of Saskatchewan physics department.

Dr. Johns, who designed the first cobalt bomb and helped install it at the university last year, detailed its operation in a recent lecture here.

## B.C. HAS IT

VICTORIA — The cobalt bomb, one of science's latest weapons against cancer, will be in operation in September in Vancouver, the minister of health, Hon. Douglas Turnbull, said Monday in the provincial legislature. He was replying to a question from Mrs. T. J. Rolston. He said the bomb has been on order for over a year. It will be installed at the Vancouver Cancer Institute.

The cobalt bomb, developed at the University of Saskatchewan, is an instrument for treating localized cancers which lie deep within the body. It consists of a core of highly radioactive cobalt which emits a stream of penetrating rays which kill cancer rays.

He forecast that in the next few years there would be a large

the world that can make the cobalt bomb, Dr. Johns claims. The bomb will produce as much radio-activity as all the radium in the world, he adds.

Construction of the unit was financed by the Saskatchewan Cancer Society. Research was financed by the society and the National Cancer Institute.

There is at present one other cobalt unit in operation—at the University of Western Ontario. The design and measurements for it were done by University of Saskatchewan graduates.

The machine is slightly better in cancer treatment than a 3,000,000-volt X-ray machine that would probably stand three storeys high and cost about \$200,000 to build, Dr. Johns says.

Yet the cobalt unit at the university is relatively small, weighing 1½ tons, and would cost about \$50,000 to build.

## ACTIVATED AT CHALK RIVER

Dr. Johns says the cobalt bomb is not a new treatment for cancer. It may present the possibilities of improved technique but the principle of treatment is not new.

The cobalt used in the unit at the university was activated in the Chalk River atomic pile. This pile is the only one in existence, he says, with sufficiently concentrated activity to activate cobalt sufficiently for an efficient cobalt bomb.

The activated cobalt consisted of 25 discs of cobalt which were left for a year in the atomic pile. They were put into a container

# Contract Let for Vanderhoof Block

VANDERHOOF — C. J. Oliver Ltd., Vancouver contractors, will build a new public building here for the federal government. Their tender of \$273,204, which was the lowest, has been accepted by department of public works.

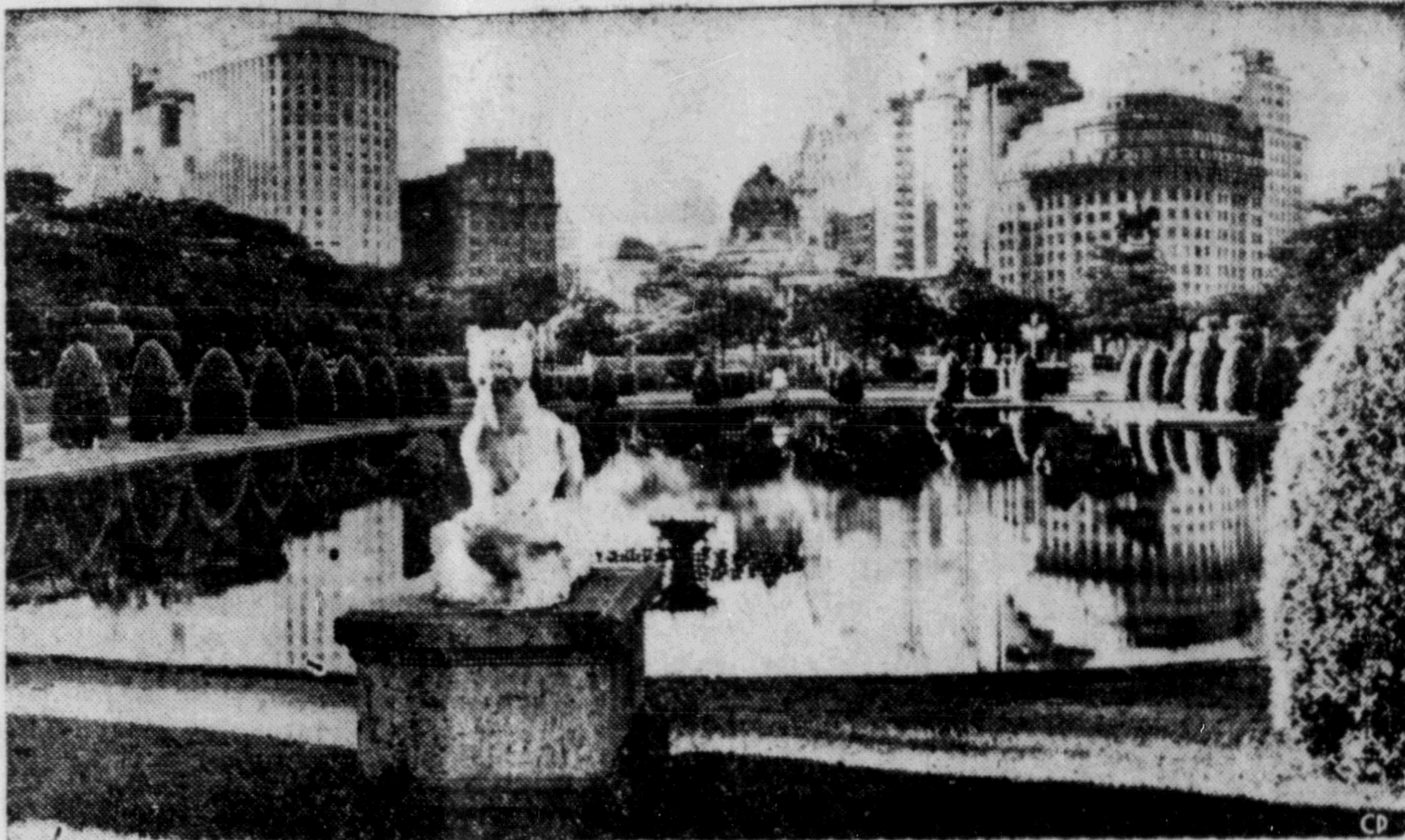
and packed in a lead casing. The 1½-ton head is suspended on a track on which it can be shifted. It may also be raised, lowered and the activated cobalt cylinder rotated by means of motors operated by a control panel.

A special room was built for it in the university hospital, enclosed in concrete walls 12 inches thick. An observation window is protected by eight panes of glass, each one inch thick.

The room is equipped with special doors that turn off the ray's activity when they are opened. The reason is that the machine makes no noise despite the tremendous energy it produces and a person could absorb dangerous rays without realizing the machine was operating.

One important feature of the unit is its movability. The machine and a turntable in the floor can be operated so that rays may be directed from several different angles in succession.

number of cobalt units in Canada. Canada is the only country in



SKYLINE OF RIO—Twenty-five years ago Rio de Janeiro was a city with buildings of only three or four storeys. Today it has hundreds of tall, white structures, 10, 20 or more storeys high. For the most part their skeletons are of reinforced concrete, instead of structural steel. The walls are filled in with light brick or block. Then the whole job is covered with a stucco, o. plaster and, PRESTO—you have a white "lim stone" building. Lack of weather stresses allows much lighter construction than in Canada. The haughty lioness is in the beautiful Praca (Park) Paris. (CP PHOTO)

# Terrace to Usk Traffic Limited

Highway Sixteen between Terrace and Usk has been closed during the past week to heavy traffic while spring thaw conditions continue and Canadian National bus service from Prince Rupert to Smithers has, accordingly, been suspended. It may be off for from two weeks to a month, it is stated at local railway offices.

The road between Prince Rupert and Terrace, however, is still open to normal traffic.

## QUEBEC POET

Alfred Garneau, the Quebec poet who died in 1904, was for many years chief French translator to the Senate at Ottawa.



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# City Fathers Like Editorial; Hand Bouquet to Daily News

The city council had a bouquet for the Daily News last night. The city fathers recorded their official approval of a recent editorial in this newspaper which suggested that people who were prone to criticize council and its actions would do well to take a more active interest in civic affairs and, instead of merely listening to rumors and second hand

# Working Old Duthie Mine

Thirty-five men are presently employed in mining development work and mill construction on the Silvan Consolidated Mines Ltd. (former Duthie) property on the eastern slope of Hudson Bay Mountain, about fifteen miles from Smithers, it was reported by Colin MacDonald M.E., superintendent in charge, who was in the city over the week-end attending the Prince Rupert Curling Club's bonspiel.

Construction work is that of a 150-ton mill which is being established on the property and which Mr. MacDonald expects should be in operation in about a year producing concentrates from the famous old silver-lead-zinc-gold property.

Underground in the old Duthie workings drifting on two promising ore faces is proceeding. When the mill gets into operation, the concentrates will be hauled out by truck to Smithers for smelter shipment.

Mr. MacDonald is a brother of Dr. J. A. MacDonald of this city

# Courtesy Films For C.N. Workers

Three motion pictures dealing with importance of a cheerful and courteous approach to the public, both in personal contact and over the telephone, will be shown to Canadian National Railway employees here tomorrow, it is announced by C. A. Berner, superintendent. The films will be shown by Harold D. Park of Edmonton, training supervisor for CN. Telegraphs, who is due to arrive tomorrow on the Prince Rupert from Vancouver. He has previously shown the films in Vancouver and Victoria.

The motion pictures include one showing how a man saved his business by improving his telephone manners and those of his staff.

Another tells the story of a man who has had a miserable day but is given the chance to live it over again and learns that courtesy really pays off.

The third picture introduces J. R. White, general manager of CN communications department, to the staff.

Mr. Park will leave here tomorrow night for Prince George for a showing there.

# "Bill" Bailey Passes Away

A 79-year-old former waterfront worker and early Prince Rupert pioneer died early Monday at the Pioneers' Home. He was William Bailey, who came here in 1907. He was a bachelor.

Born in England, he saw 12 years of service with the British Imperial Army as a member of the King's Royal Rifles. He participated in quelling rebellious tribes at Khyber Pass and Tirah, in the north of India, and was a Boer War veteran.

Surviving are a sister Lillian, and a brother, George, both in England. Funeral arrangements, in charge of B.C. Undertakers, will be announced later.

# Want Water Rights Back

Campaign for return to the city of all water rights in Shawatlans and Woodworth Lake with complete control thereof was resumed in city council last night. Ald. Casey, who introduced the subject, held that these water rights should be the sole property of the city with complete control and priority of use of water over any requirements for power generation, be it by Northern B. C. Power Co., B. C. Power Commission or any one else. There should be no situation where generation of power could be permitted from the water while the city was running short of water such as had occurred in the past.

Ald. Daggert was in sympathy with Ald. Casey's views although he pointed out that nothing could be done on the matter under the present franchise of the Northern B. C. Power Co.

Water rights at shawatlans and Woodworth will be among matters to be discussed with the provincial government by a delegation which is about to leave for Victoria to take up this and other matters.

The editor, who happened to be present personally, returned the smile as the pleasant little interlude concluded.

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# Contributions of News Welcomed

In order to assist the Daily News in complete news coverage of city organizations, it is requested that officers in charge of publicity of such organizations contact the editorial department of The Daily News. News of the activities of such organizations is always welcomed by The Daily News as is all local and personal



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