New Weapon Against Cancer Is Dedicated

LONDON, Ont., Nov. 17—(CP) — The cobalt bomb, medicine's latest weapon against cancer, was dedicated here recently.

A chunk of radioactive cobalt—half the size of a flashlight battery and contained in a huge lead box manipulated by heavy machinery — was formally presented to the medical profession by representatives of the Federal and Ontario Governments.

The bomb building is part of the Ontario Cancer Foundation's clinic at Victoria Hospital. The bomb is the most powerful radioactive source ever used for peaceful purposes.

It was developed by the National Research Council and the Dominion-owned Eldorado Mining and Refining Company. A similar bomb has just been put into use in Saskatchewan.

Cheaper Treatment

Health Minister Phillips of Ontario said today at the dedication ceremony that the London unit was installed for $50,000. X-ray to do the same sort of job would cost $120,000 to $150,000. An equally-effective amount of radium would cost many millions of dollars.

Dr. Phillips said the bomb is a cheaper and more effective form of radiation than any other.

Basically, the cobalt bomb will be used for cancer treatment in the same way as X-ray and radium. It combats cancer through radiation destruction of cells.

Body cells are most susceptible to damage by radiation when they are multiplying rapidly. Cancer cells multiply far more rapidly than normal cells and hence are the first to be destroyed.

Radium, satisfactory enough in small quantities for destroying surface cancers, was too expensive to use in quantity sufficient to reach deep cancers.

The cobalt isotope used in the bomb is known as Cobalt 60.

"Cobalt 60 epitomizes the aspirations of both physicists and radiologists who, since 1896 when X-rays were first used as a therapeutic agent, have striven to acquire improvement in quality and quantity of rays," said Dr. Ivan Smith, director of the London clinic.

How "Bomb" Is Made

Cobalt 60 is produced in a nuclear reactor at the Canadian Government's atom project at Chalk River, Ont.

To make a bomb, natural cobalt (which is not radioactive) is put inside the atomic pile and bombarded with neutrons. The neutrons split the cobalt atoms and make the cobalt radioactive.

In terms of energy, the Cobalt 60 in the bombs produces 2,500 "curies," or units of radiation. This is equivalent to that produced by about $50,000,000 worth of radium.

Radiation from the isotope is directed out of the lead container through a controlled aperture onto the area to be treated.

At a dedication-dinner speech, Production Minister Howe said atomic energy will be applied to the industrial development of Canada by an expanding research program.

"Plans are under way for the construction of an appropriate building which will provide adequate facilities for an expanding program of applied research. This research will be directed to the solution of problems involved in the widest use of radio-isotopes throughout Canadian industry. . ."

Secure From Science

A jet plane streaks across the lighted sky;
Fearful, fast and furious in its course;
Behind it trails a streak of flame, and smoke—
To show that it has roared and passed.
Its speed surpasses that of bird or sound,—
Its roar exceeds the thunder's blast;
Its mission is to flash at lightning speed
Across etheral roads and spaces vast.

A cave man peers aloft as from his cave he comes,
To venture forth their hunger to appease;
Within his hand he grips a club of wood or sling,
For dangers grave, that near him lie;
Among the beasts that lurk about in jungle, rock and crag,
And elements that freeze his family in their cave;
Who fearful wait and long for his return,
Lest they and he shall hunger long, and die.

Not from the enemies that roam the jungles wild;
Nor from the cave man's natural habitat;
Not from the frost and snow of weather's cruel blast,
With darts of pain that numbs and chills;
Not from his tribal groups who vie for food
And shelter near his darkened cave,—
But, from atomic bombs that vultures drop as eggs,
From bomb bays in the jets that kill.

As they streak thru the stratosphere in lurid flight,
In science ships of fuselage and wings;
With engine bowels burning octane gas and air,
And nitro-oxygen in bursting flame;
Belched out in fury hard against the metorol—
Out where the comets swish and play,
Amidst these death ships high above the clouds,—
That sears and kill—destroy and maim.

The cave man crawls back to his pit,
Where wait his family in their fear;
They have no science, culture, nor much faith
Nor art, or etchings on a scroll;
They merely know that they are all a part of God,
And creatures of His love within their sphere;
They do not kill their Brother man or kin,
Nor waste his substance and his soul.

They know that in the heavens, high above the stratosphere,
And fury of the belching plane,—
There rules in equity and in power
The God of justice and of love;
Who beckons all men humble and sincere,—
To fear not; and to come unto His throne;
Safe and serene from science and its cultured men,
With jets and bombs: And be secure with Him above.

—Peter A. Reilly.

Carloadings

OTTAWA, Nov. 16 -(CP)- Carloadings on Canadian railways decreased during the week ended Nov. 10 to 83,953 cars compared with 84,862 cars for the previous week and 85,140 cars for the corresponding week a year ago.

The Burea of Statistics reported today that increases were shown in loadings of grain and grain products, pulpwood an woodpulp and paper. Declines were registered in loadings of livestock, coal, ore and lumber.

YORK Y. P. U.

The York Y.P.U. meeting was held at the home of Mr. and Mrs. Alan Swan on Wednesday evening, November 14.

The worship service opened with the Call to Worship, "Kindness one to another" by Helen Lewis. Members then sang hymn 376 followed by a scripture reading by Helen Lewis. After the singing of hymn 488 and a prayer by Christine Proud, followed by the Lord's Prayer in unison, Mrs. Edison Hardy read a story, "Try Giving Yourself". The worship service closed with hymn 490.

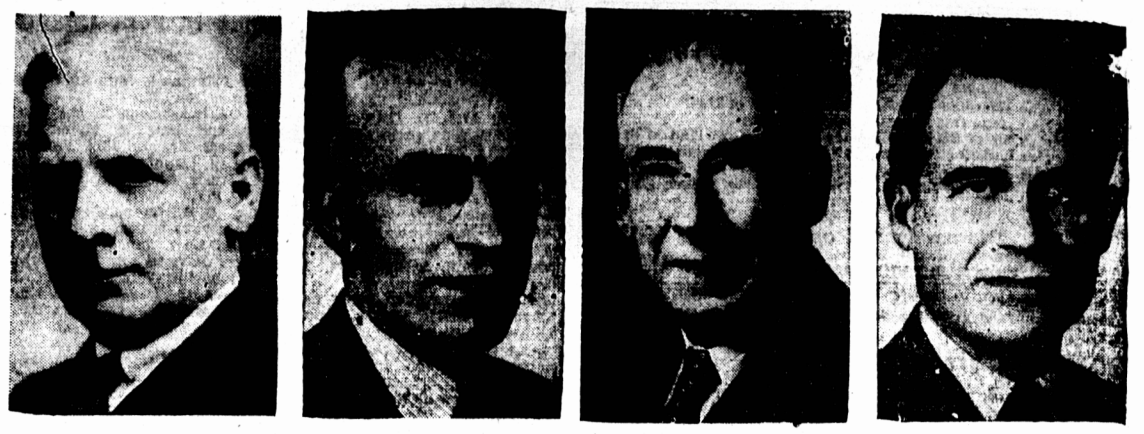
The business part of the meeting opened with the minutes and roll call of the last meeting. It was decided to invite the Union Road Y.P.U. and the Covehead Y.P.U. for a social get-together next Wednesday evening.

The roll call for the next meeting, which is to be held at the home of Mr. and Mrs. Peter Proud, is to be answered by naming a favorite hymn. The collection amounted to $1.20 and four membership fees were paid. Nelda Richards, Aletha Brown, and Jimmy Nicholson were chosen to assist Rev. John Douglas on the Faith and Evangelism Commission.

After an enjoyable recreation period lunch was served by those on the committee. Nelda Richards moved a vote of thanks to Mr and Mrs. Swan for their home.

The meeting closed with the Apostle's Creed and Auld Lang Syne.

Changes In Schofield Paper Co., Ltd.



W. M. LUNDY — W. H. MATHESON, JR. — H. E. CROWLEY — W. W. MACCORMACK

Schofield Paper Co., Ltd., announce the retirement of W. M. Lundy, General Manager, due to ill health. W. H. Matheson, Jr., formerly Manager of the Halifax Branch, has been appointed General Manager and Director. H. E. Crowley, formerly Manager of Fine Paper Sales, has been appointed Branch Manager at Saint John. W. W. McCormack has been appointed Sales Manager.

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