

LONDON, ONTARIO, MONDAY, APRIL 16, 1923.

ALBERTA MAN DISCOVERS NEW DIABETES CURE

DR. JAMES COLLIP THINKS
'GLUCOKINN' WILL PROVE
BETTER THAN 'INSULIN'Finds New Substance Latent in Green Onion Tops, Sprouted
Grain and Various Forms of Yeast—Has Been Conducting
Experiments at the University of Alberta.

NO HUMAN TEST HAS BEEN MADE AS YET

By J. D. CRAIG,
Special to The Advertiser.

Edmonton, Alta., April 16.—That a cure for diabetes lies latent in green onion tops, onion roots, barley roots, sprouted grain, green wheat leaves, bean tops, lettuce, and various forms of yeast, has been demonstrated through a long series of experiments conducted by Dr. James Bertram Collip, M. A., Ph. D., D. Sc., head of the department of biochemistry at the University of Alberta here, and co-discoverer of the insulin treatment of diabetes, with Dr. F. G. Banting, Dr. J. R. McLeod and Mr. C. H. Best at the University of Toronto more than a year ago.

In his experiments, Dr. Collip has discovered in these forms of plant life, a new hormone—that is, the extract which has the effect of counteracting the condition known as diabetes. This hormone acts in a fashion somewhat similar to the now familiar insulin, although it is obtained from such entirely different sources. Dr. Collip has given a name to this new substance, which promises to be even more useful than insulin, he calls it "glucokinnin."

Significance Twofold.

The significance of the discovery of glucokinnin is twofold. It is scientifically important, for it virtually proves the presence of a hormone in the plants which are sugar producers. It is practically important, for it widens indefinitely the sources from which extracts containing the same properties as insulin may be obtained.

Dr. Collip refuses to talk about his new discovery until it has been officially published in one of the scientific magazines, but at a meeting in New York last month of the Society of Experimental Biology and Medicine a paper prepared by him on the subject was read to the members. An abstract of this paper is appearing in the proceedings of this society. His students, too, at the work that Dr. Collip has been doing. Their enthusiasm for what he has done, has made it impossible for all of them to remain silent and the official scientific announcement is made in an eastern publication.

From his work on insulin, Dr. Collip conceived the idea that if a certain hormone present, which activated it. He started work on clams, which contained a large quantity of glycogen, and soon got positive results.

Experimented With Yeast.

He went from this to yeast, which also contains glycogen, and after 30 failures succeeded in getting positive results. He figured that as yeast belonged to the plant kingdom, this hormone must be present in plants as well as in animals.

He then started with onions and obtained wonderful results. He used lettuce, grass and barley tops, and everything else in the right positive results every time. He made

an extract from the onion and injected it into a diabetic dog. At first the animal appeared to get worse, but the next day he was normal for a few hours, and then reverted to his former condition. A second injection was given, with the same results. Continuous injections kept the dog in a normal state.

As yet, Dr. Collip has not made the test on human patients. He had not intended making any announcement until he had had an opportunity of doing so, but he saw a cablegram from Oxford saying that they were getting results from yeast—the same results he got last January, but had said nothing about. So he telegraphed an abstract of his work for presentation to the Society for Experimental Biology and Medicine, meeting on March 21, in New York, announcing the discovery, which he made on Jan. 26, and has been proving out by experiment ever since.

It was in Toronto in the winter of 1921-22, that Dr. Collip, working with Doctors Banting and McLeod and Mr. Best, devised what is known as the "collip method" of obtaining the pancreatic extract known as insulin.

Returned to Edmonton.

When Dr. Collip returned to Edmonton in the summer of 1922, he started experiments to prove that the presence of glycogen was an indication of the presence of a hormone similar to the hormone in the pancreas. Clams contain glycogen, and Dr. Collip was at once successful in proving that a hormone could be obtained from the clam.

It took many months of experimentation, however, before he was able to demonstrate a hormone in yeast. Finally, in January of this year, he obtained the desired extract from the yeast, the first ever obtained of vegetable origin. Extending his inquiries in the vegetable kingdom, he next used onions, following a suggestion made by Dr. F. J. Lewis, professor of botany at the university. Extracts from the onion had a curative effect on diabetic dogs.

That glucokinnin may ultimately supersede insulin in the treatment of diabetes, now appears probable. While it has not yet been tried on a human being, those who have studied the question believe that it will prove successful when the test is made. It is claimed for glucokinnin, that its effect develops slowly, but is maintained for a longer period than insulin used. Its non-toxic qualities are in its favor also.

Since its discovery in January, 1922, insulin has been used on some 27 patients in the university hospital here, and with marked success. These treatments have been given under the direction of Dr. Collip and Dr. Herbert C. Jamieson, lecturer in clinical medicine.

Results in the use of glucokinnin have been most encouraging from the laboratory viewpoint. Experiments still are being carried on, and it is expected that in a short time the ultimate test on a human being will be made.

STATE ARCTIC OIL WELL
PROVEN REAL PRODUCERIntense Cold of North Fails To
Affect Output.

Special to The Advertiser.

Edmonton, April 16.—By dog team mail from the Arctic, which arrived in Edmonton on Friday, word comes through that the Original Discovery Well of the Imperial Oil Company at Fort Norman, is as productive as formerly, and can truthfully be classified as a "real producer."

At any time when required from two hundred to three hundred barrels of oil can be obtained, while the gas pressure which averages 250 pounds remains steady.

The winter in the north has been extremely cold, but climatic conditions have at least served to demonstrate the high grade of the oil in the Imperial well. The oil has been piped to the various camp buildings for fuel purposes through a half-inch pipe for a distance of several hundred yards, but the thermometer has ranged between forty and fifty below zero this made no apparent difference to the flow.

Last fall the drillers commenced a new hole at "C" camp on the west bank of the MacKenzie River, and the drill on Bear Island was down 551 feet when the extreme weather made further operations impossible.

C. N. R. WORK IS UNDER WAY
ON 45 MILES OF NEW RAILS

Work on the laying of 45 miles of new metal on the C. N. R. right-of-way to the west of London has started. The work is hampered by the failure of the firm supplying the steel to deliver their share of the needed materials, but meanwhile local construction gangs are busy distributing joints, fish plates, ties and smaller parts along the right-of-way. The work will be commenced in earnest just as soon as the rails arrive.

VON ROSENBERG'S ADDRESS
OPPOSED TO SETTLEMENT

Associated Press Despatch.
Berlin, April 16.—Forecasts of Foreign Minister von Rosenberg's address before the Reichstag today indicated that he would express Germany's opposition to any suggested solution of the reparations problem which would violate in any way the territorial integrity of the Reich.

AIRMEN LEAVE TO HUNT
FOR GOLD IN LABRADORExpedition Into Bleak North-
land Being Led by
Australian.

Canadian Press Despatch.

Botwood, Nfld., April 16.—F. Sidney Cotton, Australian aviator, who holds leases in the Labrador gold field district, will lead an expedition of three aeroplanes and seven men from here today to the Stag Bay vicinity, isolated since last fall behind an ice-bound coast line.

Surveying, prospecting, moving picture and photographic equipment will be carried, and it is planned to carry out preliminary work on the lakes at once in an attempt to determine if not a rich gold strike has been made. After the aeroplanes leave Battle Harbor, Labrador, the expedition will be out of communication with civilization. Reports from Labrador state that low temperature and blizzards still prevail, and it is stated that it may be six months before ice conditions will allow practicable sea communication.



Four members of the graduating class of Western University Medical School have received appointments to the staffs of important hospitals. Hugh G. Fletcher and Lester Lightfoot, shown left to right above, have

SAYS REPARATIONS PLAN
IS LAST FROM GERMANYForeign Secretary Rosenberg
Reiterates Offer of \$7,140,000,000 to the Allies.

Berlin, April 16.—Today in the Reichstag, Foreign Secretary Rosenberg reiterated Germany's offer of last December to pay 30 billions gold marks (\$7,140,000,000) in reparations to the allied powers.

"That is the utmost and the last offer Germany will make," he declared. His speech was received with great applause except by the Socialists.

The Ruhr miners conference—representing all parties in the region—petitioned the German government in a resolution today to publish its entire reparations plan for international discussion. In this way the entire matter would be placed before the world for judgment, it was said.

AMERICAN AIRSHIP T-2
TRIES RECORD FLIGHTGiant Army Plane Starts With
750 Gallons of Gasoline
in Reservoirs.

Special to The Advertiser.

Dayton, Ohio, April 16.—A wings glistering in the sunlight, T-2, giant army air transport, shot skyward at 9:40 a.m. today, in an attempt to set a new record for sustained flight and distance. Official observers recorded the start with stop watches sealed by the naval observatory at Washington, as Lieut. John McEadey and Oakley Kelly took the air.

Climbing to a height of 500 feet, the plane steadied and started circling at a steady pace. Seven hundred and fifty gallons of gasoline were in the T-2's reservoir tanks.

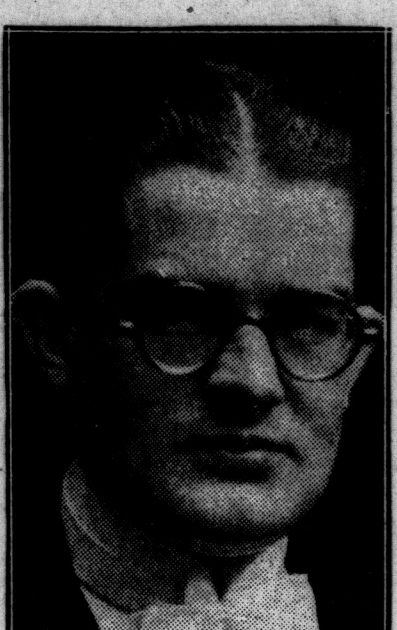
A Special Casket
To Bury Fat Lady400-Pound Woman Dies of
Pneumonia.

Canadian Press Despatch.
Montreal, April 16.—In a coffin one-third larger than the largest stone casket, Mrs. Katie Myllyko Chervitz, known for many years as "the fat lady," was buried here Saturday.

Mrs. Chervitz, who was 40 years of age and weighed over 400 pounds, contracted pneumonia Friday and died Saturday morning.

RATE OF EXCHANGE IS SET
FOR APRIL 15 TO APRIL 30

Ottawa, April 16.—In accordance with the judgment and order of the board, dated Jan. 14, 1921, the rate of exchange in connection with shipments between points in Canada and the United States from April 15 to April 30, inclusive, will be 25-16 per cent, and the surcharge on the said traffic will be 1 per cent for the same period. The rate of surcharge on international passenger business will be based on 2 per cent exchange.



SUCCESSFUL WESTERN UNIVERSITY MEDICOS.

accepted internships at Vancouver Hospital. Leo J. Girard, third from the left, has been appointed resident

Four Graduates of Western
Given Important PositionsTwo London Trained Medical Men Will Go to Vancouver and
Two Others to New York Hospitals.

Four appointments made to the staffs of New York and Vancouver hospitals, announced today, are of interest to London and district, in view of the fact that the honorees have been awarded to members of the graduating class of Western University Medical School, who will assume their new duties soon after graduation next month.

These hospitals rank among the foremost in America, and the appointments are attributed to the splendid calibre of physicians turned out by Western University. To Vancouver General Hospital, Hugh G. Fletcher and Lester Lightfoot have been appointed resident physicians, duties to commence July 1. Leo J. Girard has accepted an internship at St. Vincent's Hospital, New York, and George C. Leckie goes to the Lying-In Hospital in the same city.

The appointments were made to Vancouver General Hospital mainly on the recommendation of Dr. M. T. MacEachern, director-general of hospital administration in Canada for the American College of Surgeons, who was in London last summer, inspecting Victoria Hospital, and who, during his inspection, Dr. MacEachern was superintendent of Vancouver General Hospital, which has a capacity for 400 patients, for a period of ten years.

Hugh Fletcher is a native of Ailsa Craig, where he received his preliminary education, and Lester Lightfoot comes from Clouet, Wisconsin. The latter student received his pre-medical education at the University of Wisconsin, coming to Western as a senior. Leo Girard is a native Londoner, receiving his education in this city, where he numbers a host of friends. His home is at 119 Mount Pleasant avenue, and prior to registration at Western he matriculated at the London Collegiate Institute and St. Peter's Separate School.

George Leckie was born near Sarnia, where he received his preliminary education. He has secured one year as an interne at Victoria Hospital. Both the New York City hospitals are first-class institutions, and appointment of internes for them is regarded as important.

Coupled with the fact that six other members of the graduating class in medicine at Western University have received important hospital appointments for next year, in New York, Ottawa, and Buffalo institutions, those interested in the Medical School here celebrated the latest announcement.

SAYS GERMAN MARKS
SHOULD NOT BE SOLDWounded Veteran Sends Strong
Protest to Chamber of
Commerce.

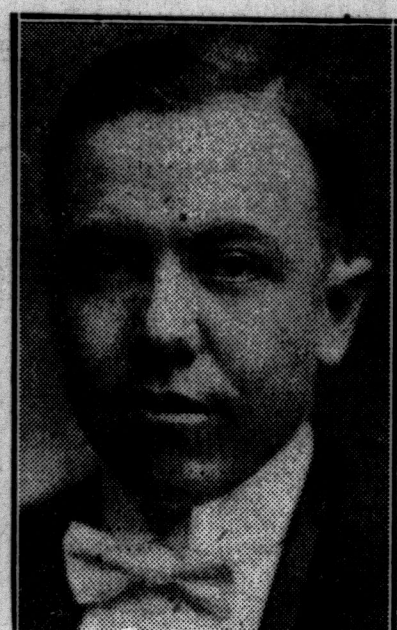
The secretary of the Chamber of Commerce has received a letter from a wounded veteran, commending the chamber on the stand taken by it, in advising the residents of London, by circular, of the dangers attending indiscriminate buying of stocks and bonds sold by house to house solicitation. He thinks, however, that the chamber has overlooked one important side of this question, that of the sale of German bonds and marks in the city.

These offerings, he believes, to be utterly worthless, and capable of being sold only to people who are easily duped, and, therefore, should come under the ban suggested by the chamber. Apart from the economic mistake in buying such "rubbish," he takes issue with the principle of giving good Canadian money for the bonds of a country that caused untold suffering and innumerable deaths during the last few years.

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OIL TANKER GOES AGROUND
IN BLINDING SNOWSTORM

Associated Press Despatch.
Biddeford, Maine, April 16.—In a blinding snowstorm last night, seven men were taken from the oil tanker *Anahim* when she ran aground at Fortunes Rocks. This morning she was resting easily on a sandy bottom, and it was expected by the coastguards that she could be saved.



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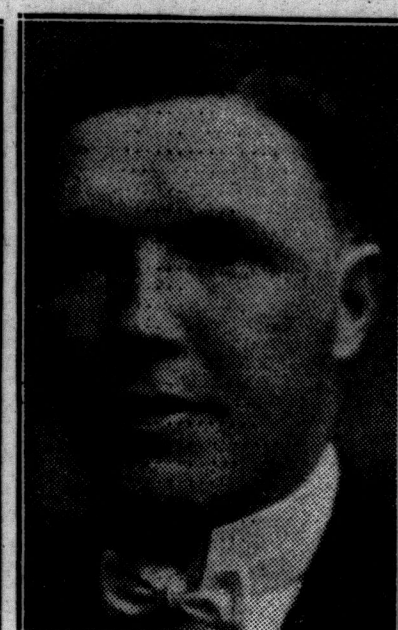
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RANEY SAYS ANTI-GERMEN
CAN CONTROL POLICELabor Restless
Awaiting Budget

Special Cable to The Advertiser.
London, April 16.—Unrest among the workers of England was manifest in increasing proportions today as the all-important budget was placed before parliament.

Conferences between employers and employees were scheduled for this week in the builders, railway shippers, pottery workers, cotton millers, chemical workers, shipyard and coal trimmer trades. There has been a strike or lock-out threatened in each of these industries, and hundreds of thousands of men are involved.

THINK CREW DESERTED
MYSTERY RUM VESSELMutiny, Not Piracy, Theory
Now Advanced in Connection With Ship.

Associated Press Despatch.
New York, April 16.—Mutiny, real or fake, and not piracy, was the theory advanced today by federal officials who are seeking to solve the mystery of the abandoned rum runner, Patricia M. Behan, which was picked up yesterday at the entrance of Great South Bay by the coastguard cutter *Manhattan*. The vessel's sails were set, her anchor was dragging, and there was no sign of the crew, which probably numbered ten.

At first the theory was put forward that pirates might have overcome the crew, but as the investigation advanced this supposition was eliminated. One official expressed opinion that a mutiny had been cleverly staged so that the vessel might later be salvaged.

Edward Barnes, assistant solicitor of the collector of the port's office, said he believed that the crew had become discouraged by the hardships of rum running and abandoned the craft.

WILL REDUCE PRICES
OF LIQUORS IN QUEBECQuebec Liquor Commission
Completes Second Year
on April 30.

Special to The Advertiser.
Montreal, April 16.—A reduction in the prices of alcoholic liquors and wines is expected to be announced after the 1st of May by the Quebec Liquor Commission. That body will complete its second year of operation on the 30th of April, and though no official statement will be available before the end of the fiscal year of the province in June, it is stated that the surplus will reach over \$7,500,000, as compared with a deficit of \$4,000,000 last year. It is understood that recently there was a misunderstanding between some of the members of the commission regarding the price charged, and that finally an agreement was reached to cut down the charges.

With the coming of the year, important changes are also forecasted in the present composition of the commission. Not only will there be a reshuffle of members, but one of the present members is likely to resign.

STAGE SCENERY BURNED,
STATE LOSS \$1,200,000

Associated Press Despatch.
New York, April 16.—Stage scenery and other theatrical effects, valued at \$1,200,000, the property of Comstock and Guest, theatrical producers, were destroyed in a fire which swept a six-story warehouse building on East 45th street yesterday.

The property was covered by one insurance of \$50,000. Morris Guest, one of the owners said. The cause of the blaze was not determined.

PRESENTS PLAN TO END
BRITISH FARM STRIKE

Associated Press Despatch.
London, April 16.—A moving plea for a compromise in the dispute between the farmers and their employees is made by Lord Alwyne.

He suggests a 51-hour week at 25 shillings, with an additional shilling when the government proposals for reduced taxation on farm lands take effect, or 52-hour week at 26 shillings, with an additional shilling when the government reduces taxation.

Commission Regulates Size of
Force, But Council Fixes
Salaries.

LETTER TO MAYOR

Attorney-General Sends Ruling
Which May Help To Solve
the Police Problem.

Members of the city council are empowered to reduce police commission estimates to any extent they feel impelled, according to a written opinion available today from Attorney-General W. E. Raney.

The official communication at hand this morning from the Toronto authorities to Mayor Wenige is the result of his worshipful appeal to the attorney-general for a ruling on the matter. The mayor announced following the defeat of the "McBride elective police commission" bill that he was "not through."

Members of the council, principally Ald. Colbert and Drake have already voiced the opinion that if the council retained such power, as the board general designates, it would serve their purpose even as much as an elective form of police administration. They stated that they had no desire to interfere with the actual dispensation of justice in the streets.

The Ruling.
The ruling to Mayor Wenige from Toronto is as follows:

"The estimates submitted by the board of police commissioners to the council under section 363 of the Municipal Act are undoubtedly, in our opinion, subject to reduction."

"Formerly under this section, before the amendment in 1920, the board submitted estimates to the council and the council held no right to interfere with the same. It is quite clear now, however, from the wording of this section, that this is no longer the case and that the estimates are like others of a similar nature, subject to what is known as 'pruning.'"

"Under section 359, the police force in cities (and in towns having a police commission) shall consist of a chief constable and other officers and assistants as the council may deem necessary, but not less than the board reports is absolutely required."

"In our opinion this does not affect the power of the council to reduce the estimates of the board of police commissioners as having proved of merit that the number of constables in cities must not be less than the board reports is absolutely required."

"The constitution of our police force, of such constables would still be the general provisions of section 353, be subject to reduction by the city council."

In short, as Mayor Wenige points out, while the police commissioners may set the number of police constables and would not reduce the force at the suggestion of the council, the latter could, if such action was considered expedient, reduce the number of constables by the council.

139,788,000 BUSHEL
WHEAT NOW IN CANADA

Government Report to End of
March Shows Increase
Over Last Year.

Ottawa, April 16.—Returns from elevators, flour mills, railway companies and crop correspondents to the Bureau of Statistics, show that on March 31, 1923, the quantity in Canada of wheat was 139,788,000 bushels, as compared with 114,988,000 bushels in 1922. At the end of March, according to the reports of the crop correspondents, 14 per cent of the total wheat crop of 1922 remained in farmers' hands.

Of the total estimated wheat crop of 1922, viz., 399,786,400 bushels, 98 per cent is reported as having been marketed, and the proportion of marketed wheat is 399,786,400 bushels. Last year's corresponding figures were 30 per cent, or 114,988,000 bushels out of 300,858,100 bushels. The proportion of 98 per cent for 1922 is higher than in any previous year since these reports were instituted in 1909. In Saskatchewan, the proportion is even higher than the percentage for all Canada, being 99 per cent.

Referential crop conditions on March 31, 1923, the statement says: "The winter has been a severe one, steady cold weather with an unusually early amount of snow almost everywhere. In most places live stock had come through the winter in good shape. The spring season is late in opening up, but a good supply of moisture is insured owing to the heavy snows. Prices for most farm produce are still very discouraging."

FORMER GERMAN PRINCE
SUFFERS FROM INSANITY

Associated Press Despatch.
London, April 16.—Former Crown Prince Frederick of Germany, suffering from a progressive form of insanity, according to a Wierengren despatch, which quotes an authority two noted alienists of Berlin.

"The prince has turned to religion for solace in his solitude," adds the statement. "He exhausted servants are obliged to listen for hours to revival services conducted by him on a wheezy organ, and he is subject to alternate fits of garrulity and taciturnity."

"HAMMER MURDERESS"
FOUND IN SAN SALVADOR

Los Angeles, April 16.—Mrs. Clara Phillips, convicted "hammer murderess," who escaped from the Los Angeles county jail December 5, has been located in San Salvador, according to a copyrighted story in the Los Angeles Examiner today. Her apprehension is momentarily expected.

