

## For the Boys and Girls

### LOTTIE'S FIRST SECRET

By LOUISE CORWIN MCCARTY.

"Lottie, I want you to make all these into lighters," said Mrs. Morton, pointing to a pile of blue, pink, yellow and green strips of paper which lay on the table. "They are so very handy, and then, you know, they save the waste."

Lottie's face brightened wonderfully as she looked at the pile of bright-colored papers.

"There'll be an awful lot of 'em—five hundred at least, if all that is made up; and it is dreadful tiring work to keep twisting and turning that slippery stuff," she remarked sulkily.

"I can see," resumed Mrs. Morton, reflectively, and without noticing Lottie's grumbling, "if you can get these done by Saturday, I will give you fifty cents."

At the mention of fifty cents, the sullen little face again grew bright, and the frown which had gathered on the pure white forehead vanished; for Lottie was fond of money, and believed she would rather work for such a sum as her mother had promised than go without it.

"And I'll then in my own room and work at them just as I feel like it," she asked.

"At any time and place you like, my dear, so long as you keep to the contract, and have them finished by Saturday," answered Mrs. Morton kindly.

"Oh, I should fail to keep up all the paper by that time, couldn't I have the fifty cents all the same?"

"Certainly not," replied Mrs. Morton. "A bargain is a bargain, and if you expect me to fulfill it—"

Lottie, however, had no compromise in her mind. The fifty cents she could not have, but she would have the money if she could get it any other way. She was a very shrewd little girl, and she was not about to let her mother's promise go for nothing.

"I'll do them in my own room, and I'll have them done by Saturday," she said, with a determined air.

"All right, my dear, but remember this: if you don't keep your part of it, you can't expect me to fulfill mine."

Lottie nodded, and then she turned to her mother and said, "I'll have the fifty cents all the same, if you don't mind."

"What do you mean by that?" asked Mrs. Morton, looking at her daughter with a questioning eye.

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returned Lottie; "but I must tell you something first: It is a very secret, and you must promise me not to tell a living soul that you have seen such a touched one of them."

"Miss, I would not say a word," Lottie said, with her doll-like beauty and her sweet, unbroken smile.

"Very well, then you may do them, and remember that to break a promise is a very wicked thing." With which Lottie walked away.

Saturday night came, and the little girl, darning to meet her mother's eyes, had her lighters, and she was very proud of them. She had made them all, and she was very proud of them. She had made them all, and she was very proud of them.

"Bess!" called Mrs. Morton, following Monday morning.

"Bess answered, and some-thing, she started in search of her mother, she came sud-denly upon her, wearing a startled expression on her round face, and in her hands she held a small, round object.

"What is that you are holding?" she asked.

"Nothing," returned Bess, with a displeased expression on her face. "I'm just holding a package to her at once."

"Certainly enough," Bess opened the package, and she found a small, round object, which she held up to the light. "What is that, Bess?" she asked.

"I don't know," Bess replied, with a look of surprise. "I found it in my pocket, and I don't know what it is."

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## PROCURING INSULIN FROM CANADIAN FISH

### CONCLUSIONS DRAWN FROM INVESTIGATION

#### Should Increased Demand Arise Fish Material Could Be Profitably Used.

It is continually being pointed out that Canada, possessing what are potentially the greatest fishing grounds in the world, is receiving but a mere tithe of possible revenue from this source each year. Not only is the Canadian fishing industry capable of very great expansion, but, as it exists today, it might be conducted in a more efficient and profitable manner, and it might be conducted in a more efficient and profitable manner, and it might be conducted in a more efficient and profitable manner.

Additional profit may accrue to the Canadian fisheries through the extraction of insulin from the fish catches as a result of investigation on both coasts of the Dominion by members of the Dept. of Psychology of the University of Toronto. Messrs. N. A. McCormick, E. C. Noble, and Fred J. Macleod have been investigating the practicability of the manufacture of insulin for commercial use from the fish caught for food.

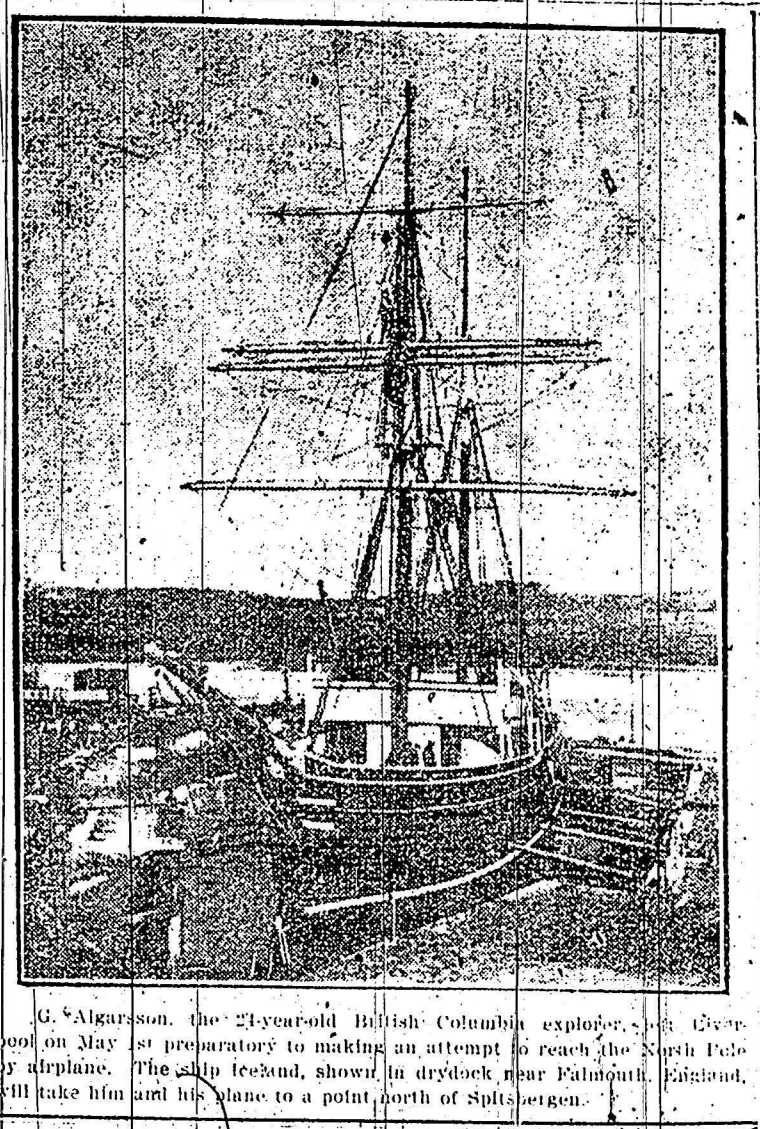
Prof. McCormick describes in a bulletin, "Insulin From Fish," issued under the auspices of the Biological Board of Canada.

**Proof of Insulin in Fish.**

In the first instance it was necessary to prove the presence of insulin in fish. The mammalian pancreas is composed of two distinct portions, one of which is purely digestive in function. The remaining portion, present as scattered microscopic clusters of a different type of cells, was the source of insulin. The peculiar feature about many fish is that these clusters, known as islets, are separate structures entirely and in many cases are far removed from the digestive portion of the pancreas.

Prof. Macleod, in whose laboratory insulin had been discovered, succeeded in preparing insulin in very large quantities from islets taken from a number of fishes at St. Andrews, N.S.W. during the summer of 1922, particularly the moulthead, the sculpin, and the founder. He demonstrated the presence of insulin in the islets in quantities comparable to that of fish. The islets obtained from mammals are of a different type, and are much more numerous and smaller than those of fish. The islets of fish are of a different type, and are much more numerous and smaller than those of fish.

The commercial preparation from these islets, however, was hindered by the fact that the islets were not readily available in large quantities. The islets were not readily available in large quantities. The islets were not readily available in large quantities.



G. S. Algarsson, the 23-year-old fish Columbia explorer, is seen here on May 15 preparatory to making his first attempt to reach the North Pole in a drift-ice harpoon boat.

### SOLDIER LAND SETTLEMENT

According to the last report the number of returned soldiers established on the land in Canada under the Soldier Settlement Board is 30,994, of whom 24,118 have been granted loans to assist them in carrying on their operations. The remaining 6,876 are on the land but have not yet received loans. The sum of \$19,410,987.73 has been disbursed in loans. Of the 21,115 soldiers who have received loans, 4,229 are on the Dominion lands, 2,463 on privately owned lands, and 14,423 on purchased lands.

The total acreage occupied by returned soldier settlers is 5,785,759 acres. Of this, 2,102,447 acres are in Alberta; 1,513,302 acres in Saskatchewan; 1,098,236 acres in Manitoba; 287,267 acres in British Columbia; 17,510 acres in Ontario; 60,628 acres in New Brunswick; 54,636 acres in Quebec; 62,473 acres in Nova Scotia; and 32,339 acres in Prince Edward Island. This approximately 88 per cent of the land settled by returned Canadian soldiers has been in the Prairie Provinces.

Taking the scheme on the whole, it is a success. It has demonstrated that it is possible to settle returned soldiers on the land, and that it is possible to settle returned soldiers on the land, and that it is possible to settle returned soldiers on the land.

### A Poem You Ought to Know

**Good Night and Good Morning.**

The centenary of the death of Mrs. Barbara has just passed, and it is possible that it would not have been recalled had not Francis Turner Palgrave included in "The Golden Treasury of the Best Songs and Lyrics in the English Language," which Thomas Campbell had to choose, the following twelve lines, which constitute her chief poem:

Life, I know not what thou art,  
But I know that thou and I must part,  
And when or how, or where we meet,  
I'll tell thee when we meet again.  
Through pleasant and through cloudy weather,  
I'll hand to part when friends are near,  
I'll hand to part when friends are near,  
I'll hand to part when friends are near.

## TAPPING THE WORLD'S TREASURES

### The British Lion is Guarding Some of the Most Precious Metals Found

Out of every ten pounds of gold mined from ore or washed from alluvial deposits, only one is supplied from the soil of the British Empire, says a London writer in the matter of the supply of metals. Stand supreme, and today have a monopoly of several of them.

Trungsten, for instance, is used for the filaments of electric lamps, and also for the hardening of tools. It is found only in Australia, New Zealand, and the United States.

Tantalum is another metal. New uses are constantly being discovered for it in the making of pens, and since it is not obtained in any other country, it is a monopoly of several of them.

Nickel is an indispensable metal used for a thousand purposes. The main source of it is in Canada, which produces about 100,000 tons a year.

Platinum is another metal. It is used for the making of pens, and since it is not obtained in any other country, it is a monopoly of several of them.

## A Vast Treasure-House of the World's Soil

According to the geologists, the earth is a vast treasure-house of minerals. The earth is a vast treasure-house of minerals. The earth is a vast treasure-house of minerals.

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### Men Who Lived Long

A list of the longevity of the human race, from an early period of the world, was the natural product of the fact that men have lived for a long time, and that they have lived for a long time, and that they have lived for a long time.

The most remarkable case in Indian history was a saintly old fellow who lived in such a pure and virtuous way that his days upon the earth were indeed many.

He was two million years old when he first became a thing, and he lived for a long time, and that they have lived for a long time, and that they have lived for a long time.

### Some Pinches Too

The little girl did not want to go to school. She was a very shy little girl, and she was a very shy little girl, and she was a very shy little girl.

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### Not a Bond

The stern voice of parental authority had made itself heard, and little Jackie had been forbidden to stay behind on the playground after school hours. Jackie's orders were to come straight home immediately school was over, and he had obeyed them to the letter for some time, but, unfortunately, one day he forgot. He argued himself very late, dirty, and tired.

"Look here," said his father angrily, "didn't you promise me you'd come straight home?"

"Yes, father," was the meek reply. "And didn't I promise to punish you if you stayed behind?"

"Yes, father," answered Jackie, more meekly still. "But as I forgot my promise, I won't tell you to yours."

### Crop Production \$13,000,000

Through the operation of the Soldier Settlement Board, the crop production of the Dominion in 1923 was \$13,000,000. The crop production of the Dominion in 1923 was \$13,000,000.

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### A Buried Palace

A buried palace, discovered in the ruins of an ancient city, was found to be a very interesting discovery. The buried palace was a very interesting discovery.

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### A Seditious Priest

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