

**OAKVILLE, ONT.**

An issue of \$6,023 5½ per cent bonds, of which \$1,603 were 3-instalment, and \$4,420 20-instalment, was awarded to the Canada Bond Corporation, Limited. Price \$5,990.66.

**KITCHENER, ONT.**

The \$16,500 5½ per cent bonds, of which \$9,300 were 30-instalment, and \$7,200 15-instalment, were awarded to Imperial Bank. Price, 101.28.

**KITCHENER, ONT. (Late Berlin).**

The city of Kitchener's patriotic grant issue, consisting of \$12,000, 5½ per cent, 20-instalment debentures, was awarded to R. C. Matthews and Co., who offered 102.09 for the block.

**SASKATCHEWAN.**

H. O'Hara and Co., Toronto, have been awarded three Saskatchewan issues, up for sale by tender by the Local Government Board. These issues were: Wauchope, S. D., \$2,000, 7 per cent, 10-instalment; Gnadenau, S. D., \$900, 7 per cent, 10-instalment; and Stelcam, R. T. Co., \$2,700, 7 per cent, 15-instalment. O'Hara and Co., have also purchased Senlac R. T. Co., \$28,500, 7 per cent, 15-instalment, and Moose Horn Bay S. D., Man., \$1,200, 6 per cent, 15-instalment.

**SOREL, QUE.**

An issue of \$100,000 5½ per cent. 20-year bonds, was awarded to A. E. Ames and Company, Toronto. Price, 96.786.

**CLIMATE LESS SEVERE.**

What Study of Larger Glaciers in B. C. Has Revealed.

Dr. Charles D. Walcott, secretary of the Smithsonian Institution, and Mrs. Walcott have just returned to Washington after several months' field work in Canada. Accompanied by only a packer and cook, they spent most of the summer and early fall on the continental divide, which forms the boundary line between Alberta and British Columbia, south of the Canadian Pacific Railway, studying the cambrian rocks, containing the fossil remains of the earliest animal life.

Owing to the heavy snowfall of the previous winter, and the fact that most of the geological formations which they wished to examine were in the deep snow about the timber line, little progress was made in July. In August, however, sections were examined and measured in the Mount Assiniboine region, and from there northwest to the celebrated Kicking Horse pass, where the Canadian Pacific Railway has bored a double loop through the mountain in order to obtain a feasible grade on the western side of the pass.

Some years ago Dr. Walcott found a remarkable fossil fauna in boulders which had been carried into Kicking Horse canyon by glaciers that have long since disappeared. This season he located the source of these boulders high up in the mountain cirque, where a portion of what must have been a great hanging glacier is still alive.

Mrs. Walcott, formerly Miss Mary Vaux, of Philadelphia, who has studied glaciers for several years, and is well known as an Alpinist, visited Glacier, British Columbia, where she measured the position of two large glaciers, and determined that the front ice foot in each case had retreated at the rate of 100 feet a year during the past two years. Steel plates were placed on the ice on the present surveyed boundary lines. The plates will be buried beneath the winter's snows, but, since their positions are relatively low as to altitude, the snow will be melted off next summer, and their locations then will indicate the amount of forward flow of ice during the year. Mrs. Walcott's studies prove that the ice has been steadily retreating during the past six years. Her measurements agree with observations made in Alaska, and indicate that the climate is not as severe now on the Pacific side of the continent as it was a decade ago.

During the field work a large number of photographs were taken, including a dozen or more panoramic views, exposures being made on continuous films eight feet in length. Besides being of great scenic interest, these photographs form valuable pictorial records showing the general localities visited and definite locations of certain strata and fossil beds.

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