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**Canadian Achievements**  
 By Lyman B. Jackes

There are many achievements attributable to men who lived in Canada and were in the true sense Canadians. In addition to other great discoveries and accomplishments recently recorded in the press, the following originated in Canada:—  
 THE FIRST ATLANTIC STEAMBOAT  
 THE SUBMARINE CABLE  
 THE TELEPHONE  
 THE ELECTRIC RAILWAY  
 THE ELECTRIC STOVE  
 CALCIUM CARBIDE  
 COMMERCIAL HELIUM  
 STANDARD TIME  
 MARQUIS WHEAT  
 THE SLEEPING CAR

Many of the readers of The Advance do not know Canada's part in these achievements. Those who have some knowledge of them will appreciate this interesting series of articles, refreshing memory and adding to a just pride in this country and its potential wealth of brains, ability and determination.

**No. 9—COMMERCIAL HELIUM**

A discovery that would cause a reduction in the price of producing a cubic foot of helium gas, from \$15.00 to nine cents, is entitled to rank amongst the outstanding wonders of the present century.

This was brought about, in Canada, by the Canadian, Professor John Cunnings-McLennan. It was a triumph of the much-discussed "pure science," a term which has been the greatest obstacle to the securing of large sums of money in this country for extensive scientific research work. Professor McLennan did not start in to seek a method that would result in the commercialization of helium gas, he was merely making as systematic an examination of the radio activity of the natural gases of Canada as the

which had been suggested by Prof. McLennan. A French chemical concern, with a branch at Toronto, loaned some costly equipment free of charge to facilitate the work, with the result that helium in considerable quantities was obtained from the Hamilton gas with a purity of 87 per cent.

With the new knowledge gained at Hamilton the experimenters removed their plant to Calgary, Alberta. These gas fields supplied the city of Calgary and the equipment was installed, so that the gas sought after could be extracted without interfering with this supply. The experimenters were enabled to extract about seven hundred cubic feet of helium from every half million feet of natural gas passed through their plant. Shipments of compressed helium commenced to appear in Britain and its use for airships proved up to and beyond all expectations. A plant was projected to cost six hundred thousand dollars, with a yearly yield of almost eleven million cubic feet of helium. When the war ended immediate interest was lost in the discovery and at the time of writing there is little or nothing being done to develop this great natural asset.

**Developments on the Way**  
 However the scientists of the United States have succeeded in inducing their government to advance money for the development of helium from the natural gases of that country. Taking advantage of the work done in Canada, by Canadians, they commenced in 1919 to extract helium in large quantities from the gas of Texas. Recently a sum of three million dollars has been granted by the United States Government to further this work.

It is probable that within the next few years wonderful uses will be found for this gas, aside from airship filling. It may greatly cheapen the transmission of electrical power and revolutionize modern ideas of illumination from electric lamps, as well as aiding in the development of many other fields of human effort.

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Next Article—The Sleeping Car.

**BIG HOTEL NOW SAID TO BE ASSURED FOR HAILEYBURY**

Apparently Haileybury is assured of the construction in that town at a comparatively early date of a big new hotel structure. The new hotel will cost about \$100,000.00 and will be modern in every respect. It will be ample for the immediate needs of the town and will fill a public need very apparent since the fire of 1922. The site has not been definitely decided upon as yet but there is general acceptance of the fact that arrangements are now practically completed in the matter of financing, etc. It is understood that Mr. Morin, of Sudbury, and a number of Haileybury men are ready to provide the necessary capital and have arranged for an early start on the building.

**PARENTS LOCATE SON THROUGH ITEM IN ADVANCE**

In the issue of The Advance of June 4th, mention was made of the fact that the parents of a Mr. Geo. Wakefield were very anxious because they had not heard from their son for a considerable time and had been unable to locate him. In their anxiety they appealed to the Salvation Army and Capt. Cornthwaite asked the cooperation of The Advance. A description was published of the missing man together with the information that he had last written home from Timmins, but all efforts to locate him here were unavailing though letters sent him were not returned. Within a couple of days of the issuing of the paper the missing man was located and explanations made. Mr. Wakefield had moved to South Porcupine and is now resident in that thriving town.

If people always told the truth there would be a hospital on every corner.

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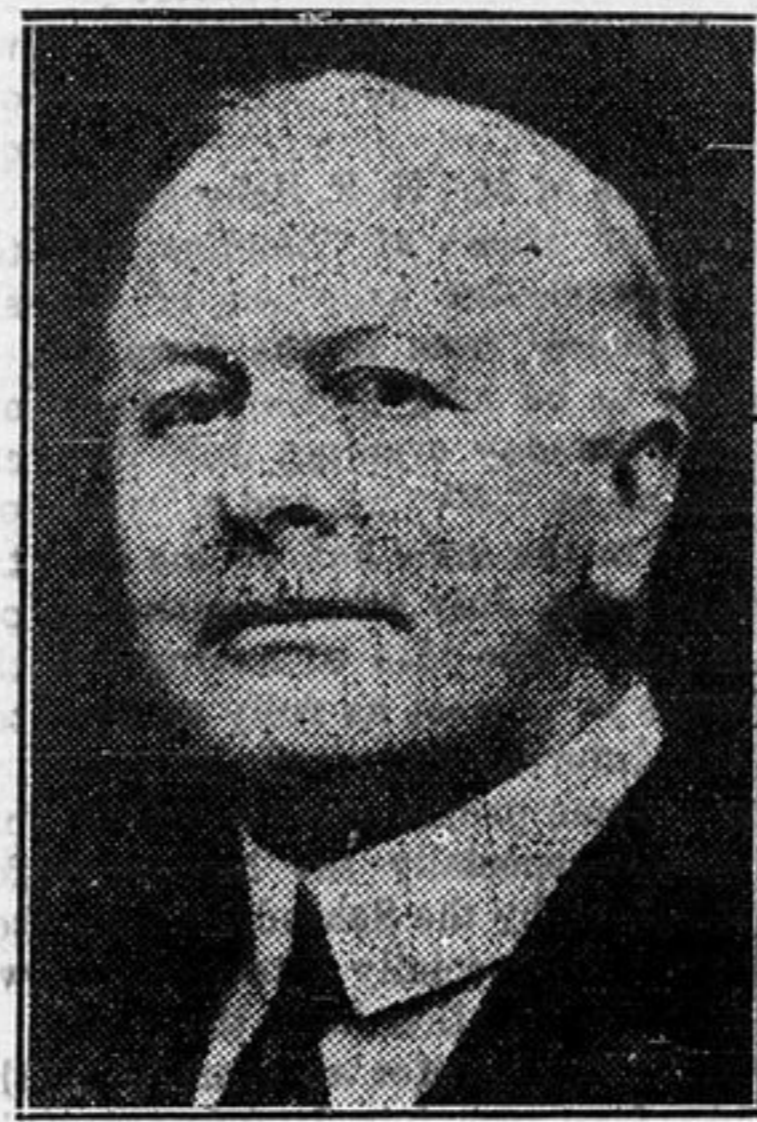
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**PROFESSOR JOHN CUNNINGHAM McLENNAN**, whose brilliant researches attending from 1904 to 1918 gave helium to commerce, with a reduction in price from \$15.00 to nine cents a cubic foot.

limited funds at his disposal would allow. From 1904 he followed this work, with several other tasks. Each experiment was tabulated and duly reported, with the result that when, in 1915, Sir Richard Threlfall suggested to the British Admiralty the great advantages of using helium against hydrogen for airship purposes the eleven years' work of the Canadian scientist, suddenly became of tremendous practical importance.

The Admiralty turned the suggestion over to the Board of Invention and Research, and they invited Professor McLennan to prepare a report on the helium supplies within the Empire, and to determine if they could be commercialized. At that time the combined scientific laboratories of the world had not collected more than about seventy-five cubic feet of this much sought after gas.

**Finding It In Canada**  
 Prof. McLennan and his staff went carefully over the records of that period from 1904. The first fruits was the discovery that large supplies of helium were available from the natural gas fields of southern Alberta and an unknown quantity from the natural gas deposits which supplied the city of Hamilton, Ont. Some preliminary tests and a report were made with the result that early in 1917, the British Board advanced considerable money to proceed along the lines

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**The Mining Market**

While the mining market for the past two months has remained very quiet with a small volume of trading, yet the stocks have held their position against forced selling orders exceptionally well, reflecting its strong technical position. We are of the opinion that the present time offers a real opportunity for the purchase of stocks and we have no doubt but what handsome profits will be realized as a result if prompt action is taken.

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