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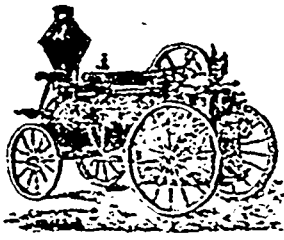
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Chemical Laboratory, Dalhousie College,  
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**GEORGE LAWSON, Ph. D., L. D.**  
Fellow of the Institute of Chemistry of Great Britain and Ireland.

## MINING.

### CANADA.

From Annual Statistical Number of The Engineering and Mining Journal.

BY JOHN STEWART, M. E.

The notable feature in connection with the mining industry in the Dominion of Canada during the past year has been the measures passed by the local Houses of Assembly, in the Provinces of New Brunswick, Quebec, Ontario and British Columbia. These enactments have an important bearing on the future of the industry in two ways; in the opposite directions of promoting the mining interests or in retarding them. The former consist in the recognition of the true principle, that the mining rights are separate and apart from the surface or agricultural rights. The minerals belong to the people, and their representatives are intrusted to grant the working of them to the miner or to those who are willing to invest capital in exploiting them. The possessor of the surface formerly owned everything beneath the boundaries of his land, and the underground boundaries were the surface lines of the property produced vertically under the surface lines. The system has prevented mining, and only worked in the interests of the speculative tendency of a surface owner, who sat on his mining claim and demanded a cash sale for minerals, the existence of which he could not guarantee. New enactments are more in keeping with those of the United States of British Crown Lands. The objectionable features in them will be amended in time, but their general tendency is in the interests of legitimate mining and the welfare of the miner.

### ONTARIO.

**APATITE.**—The Anglo-Canadian Phosphate Company resumed mining in the spring at Otty Lake, in the Perth district, with a force of 30 men, and continued working until October. The Bobs Lake mines, owned by this Company, have been worked on contract. Many small openings worked yearly by prospectors and farmers in the Kingston and Perth districts. Messrs. Brodie & Co.'s superphosphate works at Smith Falls are in operation and receive their supply from small producers along the Rideau Canal.

Prospecting has been carried on in the northern phosphate district from Haliburton and Monmouth townships on the west through the northern part of North Hastings County to Sebastopol and Brudenell townships. Deposits 10 ft. wide are reported to have been discovered near Cobden Station, on the line of the Canadian Pacific Railway, in Bromley Township.

In the Kingston district the Rock Lake Phosphate mine on lot 21-15th con. of Storrington has been leased for ten years by James Bell, of Arprior, and Lomer Rhor & Co., Montreal; 100 tons a month are agreed on as the minimum output. The Blessington Mining Company closed down the Silver Lake, St. George's Lake and Bedford mines during the early part of the year, but continued to operate two shafts at the Eagle Lake mine with a force of 30 men. Operations were resumed in the summer, and several thousand tons of rock were mined. The Foxton mine produced about 150 tons a month, with 30 to 40 men, and 1,000 tons were mined up to July; the mine was closed down in the fall. The Kingston Mining Company averaged 100 to 150 tons per month during the year. Prospecting has been done in the Sharbot Lake and Oso districts on the line of the Kingston & Pembroke Railway.

**IRON.**—A company was organized by Mr. T. D. Ledyard, of Toronto, called the Belmont Bessemer Ore Company, of New York, to work an iron mine in the township of Belmont. A shaft has been sunk 50 ft. and cross-cuts driven. A diamond drill has been used on the property to a depth of 100 ft. to 300 ft., proving the deposit to be 60 ft. to 70 ft. wide at least. The Company proposes to build a spur 6 miles long to the line of the Canadian Pacific's Ottawa & Toronto division. A force of 20 men are employed under the superintendency of Mr. G. L. Wardworth, M. E., late of the Iron River mine, Michigan. A few hundred tons of magnetic ore are reported to have been shipped from the Snowdon district. Prospecting and considerable booming of iron claims have been carried on in the Thunder Bay iron ranges west of Port Arthur.

**GOLD.**—Mr. J. McFee, Belleville, Ont., organized the Crescent Gold Mining Company of Marmora, Limited, to work the old Glzdetono and Feigle mines, near Melone, Marmora Township. A new discovery of gold bearing quartz was made this season in Belmont Township, and Mr. Mark Powell, of Marmora, and Mr. J. Lingham, of Belleville, organized a company in England to develop the find, which is reported to be rich, and has caused some excitement in the district. A stamp mill is being erected. A shaft has been sunk over 60 ft., and the ore is said to yield \$18 a ton. In Creighton Township, Sudbury district, on lot 10 in 4th con., development work has been done, and on lot 2 in 4th con. Messrs. Clark & Co. have sunk a shaft 60 ft. A new company has been formed to work the Vermilion mine on lot 6 in 4th con., Dennison, for gold, platinum and nickel ores.

**COPPER AND NICKEL.**—Little or no ore has been mined in the Copper Cliff mine, the old stock piles, with ore from the other mines, having been used for a supply for the roasting yards. The two cupola furnaces were in blast producing copper-nickel matte. An extensive Bessemer plant has been constructed during the past season and operated. The Evans mine, 1½ miles southwest from the Copper Cliff, has been worked during the year. The Stobie mine, 3½ miles north of Sudbury, has also been a steady producer.

The Dominion Mineral Company's Blizzard mine, four and one-half miles north of Sudbury, was worked until October, when it was closed down with a view of reorganizing the company. One blast furnace was operated and matte shipped to England and the States. A force of 300 men were employed.

(To be continued.)