bank, which at first seemed like snow; upon a little further examination I thought it was alkali, such as I have often seen in New Mexico and other places in the Southwest. On inquiry I found that it was manganese. One gentleman told me that he had investigated this great deposit and had dug down 15 feet through a pure body of manganese. It appears almost like potters' clay of the finest quality. I was assured that there are unlimited quantities of this mineral in the vicinity of Atlin, but the present freight rates make it impossible to deliver this to the iron manufacturers at a profit. I have very little doubt that the time will soon come when this will be a very valueable deposit, one to be developed at great profit ; today it appears to be valueless. It is my opinion that some of our manufacturers of steel in the United States would do well to investigate this large deposit of manganese.

There are new mines being discovered in the vicinity of Atlin constantly, and I believe that, this will eventually become one of the largest mining districts on this coast, but, as I have previously said, it will require large capital for its development. At the present time there are five hydraulic propositions under development. Three of these are now sending out gold frequently, which I am informed is secured at a price which yields good profit on the investments. There are others under process of development that are expected to be in operation before the end of the present season or, at least, early next year.—*Mines and Minerals*.

Famous Old Spanish Mines.

The famous mines of Potosie, Bolivia, were discovered by the Spaniards in 1535. It is a mountainous district, about 18 miles in circuit, and three miles above the sea level. During the first 10 yards the workings were small and desultory. Systematic working commenced in 1545. From 1545 to 1547 it was considered a bad month when the mines failed to yield 1,500-000 dols. From 1548 to 1551 the product fell below 1,000,000 dols. a month. From 1556 tu 1578 the average annual product was 2,000,000 dols.; from 1579 to 1736 the average annual product rose to about 3,000,000 dols.; from 1537 to 1739 it fell to 2,500,000 dols.; from 1535 to 1789 the estimated product was 788,000,090 dols. This enormous total records one of the greatest productions ever made by a single district.





Canadian Mining Institute

INCORPORATED BY ACT OF PARLIAMENT 1898

AIMS AND OBJECTS.

(A) To promote the Arts and Sciences connected with the economical production of valuable minerals and metals, by means of meetings for the reading and discussion of technical papers, and the subsequent distribution of such information as may be gained through the medium of publications.

(B) The establishment of a central reference library and a headquarters for the purpose of this organisation.

(C) To take concerted action upon such matters as effect the mining and metallurgical industries of the Dominion of Canada.

(D) To encourage and promote these industries by all lawful and honourable means.

MEMBERSHIP.

MEMBERS shall be persons engaged in the direction and operation of mines and metallurgical works. mining engineers, geologists, metallurgists, or chemists, and such other persons as the Council may see fit to elect.

STUDRNT MEMBERS shall include persons who are qualifying themselves for the profession of mining or metallurgical engineering, students in pure and applied science in any technical school in the Dominion, and such other persons, up to the age of 25 years, who shall be engaged as apprentices or assistants in mining, metallurgical or geological work, or who may desire to participate in the benefits of the meetings, library and publications of the Institute. Student Members shall be eligible for election as Members after the age of 25 years.

SUBSCRIPTION.

PUBLICATIONS.

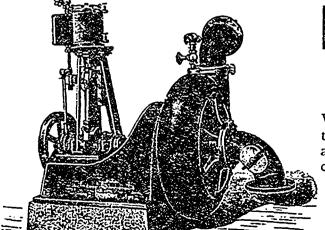
Vol. I, 1898, 66 pp., out of print. Vol. II, 1899, 285 pp., bound red cloth. Vol. III, 1900, 270 pp., """ Vol. IV, 1901, 333 pp., """ Vol. V, 1902, 700 pp., ""

Vol. VI, 1903, 600 pp., now in press.

Membership in the Canadian Mining Institute is open to everyone interested in promoting the profession and industry of mining without qualification or restrictions.

Forms of application for membership, and copies of the Journal of the Institute, etc., may be obtained upon application to

> B. T. A. BELL, Secretary, Orme's Hall, Ottawa



MORRIS MAGHINE WORKS

BALDWINSVILLE, N.Y.

Centrifugal Pumping Machinery for various Industrial Purposes

We are building a special solid steel lined pump for handling tailings or slimes in gold mining. Estimates furnished upon application for pumping outfits for special purposes. Write for catalogue. New York office-39-41 Cortlandt St

AGENCIES-

Henion & Hubbell. 61-69 North Jefferson St., Chicago, Ill. Harron, Rickard & McCone, San Francisco, Cal. Zimmerman-Wells-Brown Co., Portland, Oregon. Mitchell, Lewis & Staver Co., Seattle, Washington.