

men, one who whether cowboy, soldier, diplomat or statesman, was a perfect man and an ideal ruler, admired and praised by the whole world. On the conclusion of his remarks the distinguished assemblage sang "The Star Spangled Banner." After this toast had been honored, President Smith called on Mr. Rodden, an eminent mining engineer and miner, for a mining camp song. He did full justice to a rollicking mining lyric, "Drill, Ye Terriers, Drill." This melody was realistically accompanied by miniature dynamite explosions.

"The Lieutenant-Governor of the Province of Quebec," to follow faithfully the list, was the sixth toast, and drew forth the greatest applause.

In proposing this toast the chairman proclaimed his pride in Quebec, her institutions and her laws. Her pioneers had civilized, colonized and Christianized the whole of this Province and a large part of Canada and the United States; and never did we have at the head of the affairs of this Province a more eminent man than Lieutenant-Governor Jette, who had lent lustre and dignity to every position he had filled, whether as lawyer, judge, statesman, High Commissioner or Lieutenant-Governor.

Sir Louis Jette, C.M.G., Lieutenant-Governor, who, on rising to reply, was cheered to the echo, delivered what is considered by competent judges to have been as humorous, witty, spirited and eloquent a piece of after-dinner oratory as has been heard in Quebec for a long time. His post-prandial style certainly compares favorably with that of Justin McCarthy and Chauncey Depew. His surprisingly delightful eloquence was punctuated with applause.

After Lieutenant-Governor Jette's speech Mr. Rodden sang, "Off to Philadelphia in the Morning."

"The Dominion Parliament" followed, Elfric D. Ingall, of the Dominion Geological Survey, responding.

The next toast, "The Legislature of the Province of Quebec," brought Hon. Jean Prevost. He made a very lengthy, able, eloquent and patriotic address, which was heartily applauded. At its conclusion the members of the Mining Institute congratulated the hon. member on his very liberal and broad-minded sentiments.

The "City of Quebec" was then proposed. His Worship the Mayor (J. G. Garneau, Esq.), in his reply, taking occasion to speak of the great pleasure it gave him to see so many eminent gentlemen in our midst, and extending a very hearty welcome for their next visit to the old Rock City.

"The Mineral Industries," proposed by Dr. Francis D. Adams, was ably responded to by Major Robert G. Leckie and Hiram M. Hixon.

The last toast on the list, "Our Guests," followed, Dr. J. B. Porter proposing it in honor of Dr. James Douglas, of New York, our eminent and world-renowned former fellow-citizen, scientist and degree-holder of many universities whose heart beats as warmly for his native city as ever.

Dr. Douglas, in reply, gave a most interesting review of Quebec, from his boyhood days to the present time, Lieutenant-Governor Jette, as well as the rest of the audience, were attentive listeners to every word that fell from Dr. Douglas' lips, and, although it was the last on the list, it was the pièce de resistance. Dr. Douglas was warmly applauded, and congratulated on his great effort.

This brought the pleasant gathering to an end.

### Third Day: Morning.

The following papers were read at the Friday morning session:—

"On the need of a topographical survey of the Dominion of Canada, particularly with reference to the Development of the Economic Resources of the Dominion," by Dr. F. D. Adams.

Messrs. James White (Dominion Topographer), Dr. A. E. Barlow, and Mr. E. D. Ingall discussed this paper, and the general opinion was that 50 per cent. of the time of the Geological Survey was actually wasted in the necessity for making maps to illustrate their legitimate work. It was agreed that this matter should be emphasized by the President's deputation before the Government.

"Some Laboratory Experiments in the Electric Smelting of the Titaniferous Iron Ores of Hastings County," by J. W. Evans.

"The Teaching of Metallurgy in College Laboratories," by Dr. Alfred Stansfield, Professor of Metallurgy, McGill University.

"The Education of Mining and Metallurgical Engineers, with Special Reference to Teaching and Practical Work," by Dr. J. B. Porter, Professor of Mining, McGill University.

The main points in this paper were: (1) Teach principles, not processes; (2) teach the men to think, not to copy—to attack the proposition; (3) that business methods

should form an important part of modern engineering education; and the necessity of a knowledge of estimating was emphasized. Dr. James Douglas took part in the discussion, and his remarks were "pure gold."\* Mr. Nanabhai D. Daru, of India, also took part in the conversation.

At this stage the following resolutions were unanimously adopted:—

### I.

That in the opinion of this Institute bituminous coal should be admitted into central Canada free of duty, when used exclusively for the manufacture of coke for use in blast furnaces producing pig-iron: and that a copy of this resolution be forwarded to the Premier, Sir Wilfrid Laurier, and the Hon. W. S. Fielding, Minister of Finance.

### II.

That in the opinion of this Institute the Dominion Government should enact legislation providing for the payment of a bounty of \$3.00 per ton on pig-iron, the product of ores raised or mined in Canada or Newfoundland. . . The Act to remain in force for five years from date of passage: and that a copy of this resolution be forwarded to the Premier, Sir Wilfrid Laurier, and the Hon. W. S. Fielding, Minister of Finance.

An admirable paper by Dr. A. E. Barlow on "The Nickel Deposits Near Webster, Western North Carolina," illustrated by views and mineralogical specimens, terminated the morning session.

### Afternoon, 2.45: Final Meeting.

The first order of business at the final session was the report by the scrutineers of the result of the ballots cast for the election of officers. The result showed that the popular President, Mr. Geo. R. Smith, M.P.P., had been unanimously re-elected for another term. The full results were as follows:—

President—Mr. Geo. R. Smith, Thetford Mines, Que.

Vice-President—For one year—Dr. F. D. Adams, Montreal; Major R. G. Leckie, Temagami P.O., Ont. For two years, Frederick Keefer, Greenwood, B.C.; G. Herrick Duggan, Sydney, C.B.

Treasurer—J. Stevenson Brown, Montreal.

Secretary—H. Mortimer-Lamb, Montreal.

Councillors—For one year—Mr. John Blue, Mr. C. J. Coll, Mr. Thos. Cantley, Mr. Frank B. Smith, Mr. J. C. Gwillim, Mr. Jas. McEvoy, Mr. W. G. Miller, Mr. Harry Williams. For two years—Mr. W. H. Aldridge, Mr. B. A. C. Craig, Mr. A. M. Hay, Mr. R. T. Hopper, Mr. Thomas Kiddie, Dr. A. E. Barlow, Dr. J. Bonsall Porter, Mr. W. D. Robb.

A vote of thanks to Dr. Porter—acting Secretary without remuneration—was carried with acclamation; the President expressing the hope that the Institute would remember what he (Dr. Porter) had done. Then followed a most interesting paper by Prof. R. W. Brock, of Kingston, on "The History of the Rossland District," which was illustrated by a number of lantern slides, portraying scenes in that famous mining centre. A series of very fine views in connection with the asbestos industry at Thetford Mines (controlled by President G. R. Smith) were also shown, as were a series of views taken by Dr. J. Bonsall Porter during a recent trip to South Africa.

An invitation from Mr. Arthur St. Jacques, Gentleman Usher of the Black Rod, on behalf of Hon. Mr. Archambault to attend the ceremony in connection with the prorogation of Parliament that evening, was read by the President and accepted by the members.

Votes of thanks to the Hon. W. Brodeur, for the pleasant "Moncalm" trip; to Gen. Manager Evans of the Q. R. L. & P. Co. for the special car excursion to St. Anne de Beaupre and Montmorency Falls; and to the Mayor for the hospitalities of the fair city of Quebec, brought to a close the eighth annual meeting of The Canadian Mining Institute.

\* We purpose some day giving a *verbatim* report of this speech.