

brothers," the two branches serving as aids to each other. The discussion on this paper brought out a wide difference of opinion. It seemed to be the general opinion, especially of the Canadian delegates, that one person could not do justice to the work of inspection and collect statistics too.

Mining Matters.

An extensive find of hard coal is reported at Fortune Bay, on the coast of Labrador.

Gold has been discovered in the gravel on the streets of Dawson.

Hematite has been found for the first time in British Columbia, near Quatsino Sound.

An exceedingly valuable mica deposit has been discovered at Bay St. George, Newfoundland.

A rich body of gold quartz is reported to have been found at Sturgeon Lake, ninety miles north of Ignace.

Anthracite coal has been discovered in Alberta, some sixty miles west of Okotoks, on the MacLeod branch of the Canadian Pacific Railway. Operations have revealed seven seams, varying in thickness from $4\frac{1}{2}$ to 40 feet.

Aerial navigation is not yet perfected. Stanley Spencer, the aeronaut, left the Crystal Palace at London in his airship, made a half circuit over St. Paul's Cathedral, and went northwards to Trent Park, where he descended. He had desired to return to the Crystal Palace, but was obliged to land eight miles from there.

John M. Bell, an explorer for the Ontario Government, reports in addition to the deposits of coal in the Abitibi region, mentioned elsewhere, that he found a splendid deposit of brown hematite iron ore on both sides of the Mattagami river. It extends on one side for 1,160 feet, and extends under the river bottom.

A recent visitor to this country was W. A. Carlyle, who a few years ago was professor of mining in McGill University, at Montreal, and afterwards connected with the Le Roi mine in Rossland. Since then he has been manager of the famous Rio Tinto copper mines in Spain, which employs 11,000 and turns out 80,000,000 lbs. of copper a year.

MISCELLANEOUS NOTES.

The Toronto Radiator Co. is building large works at Lachine, to employ 100 men at the start.

Barrie has voted a loan of \$20,000, with free site, water, etc., to the Barrie Carriage Company.

Barrie has voted \$3,000 to improve its fire appliances, and instal an electric alarm system.

E. R. Simpson, M.I.M.E., of Boston, has been appointed engineer of the Chapman Double Ball Bearing Co., works, Toronto.

The capacity of the Ogilvie mill at Winnipeg has been increased from 3,000 bbls. to 3,500 bbls., by adding another story.

The Port Huron Engine and Thresher Co. have purchased 172 acres of the Indian reserve, adjoining Sarnia, on which to erect a Canadian branch of their works.

—The annual dinner of Toronto No. 1, Canadian Association of Stationary Engineers, will be held at the Walker House, on the evening of the 14th inst. G. C. Mooring is chairman of the dinner committee.

An American inventor has patented a process for making paving blocks, fence posts, and railway ties from leather. Scraps from leather working and old leather of any description may be used.

Ottawa has declined the offer of the Bell Telephone Co., to supply, if it gets an exclusive franchise, telephones for business places at \$45 per year and for residences at \$25, with 50 telephones free for the civic service.

Robert McCallum, C.E., engineer of the Public Works Department, of Ontario, has been appointed city architect for Toronto.

The company which owns the electric plant at Midland refuses to accept the award of the arbitrators, who fixed \$9,629 as the sum the town should pay for it. The company says it is worth \$20,000. Steps are being taken to enforce the award.

Berlin, Ont., will spend \$70,000 in improving the electric light and power plant recently taken over by the town. Instead of steam, gas engines will be installed. Incandescent lights will be supplied at a cent a night per light, and the price of gas reduced to one dollar per thousand.

An attempt was made at Toronto Junction to injure the plant of the Humber Power & Light Company, by putting a piece of steel wire across the lines so as to cause a short circuit. The large alternating generation at the power-house was stopped before any serious injury was done.

C. A. Bigger, C. E., Ottawa, who has for some months been engaged on the work of re-locating and re-marking the international boundary between Quebec and Vermont, has finished that work, and has been appointed to the astronomical staff in connection with the work of the new observatory at Ottawa.

The Diamond Machine Company, of Providence, R.I., has purchased the patents, patterns, etc., of the Gorton Disk Grinders, and will manufacture the full line, twenty-three machines. The shops of the Gorton Machine Co. will probably be employed upon the construction of mining machines embodying important improvements.

A. W. Campbell, good roads commissioner for Ontario, states that since he came into office there have been expended on the roads of the Province a million days of labor and \$3,000,000 cash, and he anticipates within ten years a complete transformation in the condition of the country roads. He strongly advocates the abolition of statute labor, which is wasteful both of time and money.

A company of New York capitalists has been formed to operate plaster quarries at St. Ann's, C.B. A railway five miles long from the plaster deposits to tide water, at North Sydney, and a large pier containing pockets will be built.

J. M. Drury and L. Lambert, of the Brown & Sharpe Mfg. Co., Providence, R.I., have been visiting Ontario during the past month.

—The Canadian Press Association, on its recent trip to the Temiskaming district, received many courtesies from the Grand Trunk, the C.P.R., the Lumsden line of steamers, and others. The North Bay people had planned a trip across Lake Nipissing to French river, to point out the advantages which it possesses, as a canal route, but want of time prevented it being carried out. The people of North Bay are very anxious to see this scheme taken up.

It is stated that a strong syndicate has been formed, with a capital of \$10,000,000, to construct several large water-power electric plants to manufacture steel from the vast beds of magnetic ore in Ontario and Quebec, by the new electrolytic process of reduction. Sir Wm. Van Horne, Sir Thos. Shaughnessy, John Charlton, M.P., the Westinghouse Co., the Morgan and Schwab interests, and the United States Steel Corporation, are all reported to be interested.

—Regarding the much discussed proposal of the United States Steel Corporation to establish a Canadian branch of its steel works at Port Colborne, or some other port on Lake Erie, John Charlton, M.P., is authority for the statement that the corporation is now considering the claims of Port Burwell and Port Rowan, with a preference for the former. Apparently the corporation is not in a hurry to decide on a location.

—Curtain walls of expanded metal and plaster are used in factories to prevent the rapid spread of flame. The Deering Harvester Works at Hamilton has these fire curtains in the following form: The building is of brick, with timber roof, trusses resting on the walls. The trusses are furred and lathed on both sides with expanded metal, the furring and lathing being carried up about three feet above the roof and then plastered with one inch of cement mortar.