

pared with that occurring in limestone in regard to its richness in gold and silver, also the metamorphic veins continued to a greater depth than the non-metamorphic, and that galena veins were often rich in one stratum but poor in others, providing the strata were of different composition. Mr. Dewar went on to give statistics of mines in Cornwall and Devon, and mentioned a table in Percy's metallurgy of lead regarding the presence of silver and gold in galena, which he said he did not propose to improve on. He also treated of auriferous pyrite, giving as an example the Morro Velho mine in Minas Geraes, in Brazil, one of the richest of that country, in which the workings were on auriferous pyrites, and remarked that quite a portion of the annual production of gold was from iron pyrites. In regard to the different theories of the origin of metamorphic and non-metamorphic deposits, he found that the former originated as veins of segregation through hydrothermal fusion, and the latter as superficial deposits. In the non-metamorphic deposits the salts occurred as lead sulphate or carbonate, the silver as chloride, the gold as sulphide and chloride, while the solvent solutions were alkaline hyposulphites, chlorides, or carbonates. The paper also treated of the solvent power of ferrous and ferric sulphates in relation to gold.

SIXTH MEETING.

Sixth Meeting, 6th December, 1890, the President in the chair.

Donations and exchanges, 60.

The following Resolutions were passed :—

Moved by Mr. Hamilton, seconded by Mr. Harvey—

“That the Institute approve of the memorial presented by the Historical Section relating to the publication of documents in connection with the northern and western boundaries of Ontario. The Institute also desire to enquire if the correspondence of Governor Simcoe and the archives of the military forces in Canada at and about the period of the establishment of the separate provincial government for Upper Canada recently acquired by the archivist at Ottawa have been examined by the Government with a view to publication either in full or in abstract form as is now being done by the Province of Quebec in the case of similar documents. That the President and Messrs. Bain, Harvey, Boyle, and the mover be a Committee to wait upon the Hon. the Attorney-General and bring the above matters before him and the Government.”