

anticlinal or dome structure exists, together with other necessary conditions, such as impervious strata to hold down the oil.

PROF. MONTGOMERY—The people of this province are taking a great interest in our mineral development, which affords so much hope for the future. We are all very glad to know from the Provincial Geologist that there is so much ground for hope that there will be very important mineral development in Ontario in the future. Our disappointment in the past has been probably caused by other reasons than the absence of good mineral ore. It is some years since I was present at a meeting of the Institute and I notice many changes, the greatest one being the absence of our friend Mr. Bell. I would like to ask if there has been similar work done upon the pyrrhotite of other localities in Pennsylvania, California and elsewhere, as compared with British Columbia and Ontario. I would like also to know with regard to our zinc, the mode of occurrences and the reduction of this zinc ore in Ontario as compared with the zinc ores of Missouri and other places. I thought I might ask also whether there is sapphire in the deposits at Peterborough and Hastings. I collected several very pretty specimens of blue corundum in Mettuen township, county of Peterborough, in 1897 and 1898, but I could scarcely regard them as true sapphires. Some eight years ago I found uraninite in Quebec not far from the Ottawa River, and I presume it may have been found in Ontario localities. I should like to get more information about the celestite near Marmora, and about the idocrases and zircons near the Ottawa.

We are all much indebted to Prof. Miller for the splendid paper he has given us and the trouble he has taken to present it to this Institute.

DR. ADAMS—In the presence of so many eminent authorities on the mineralogy of Ontario, I feel that I am unwise in accepting the chairman's invitation to speak. I may say, however, that there are very large deposits of pyrrhotite in the townships of Galway and Somerville, which we found in making the geological survey of that district and which have so far been considered of little value on account of the fact that it has been impossible to obtain sulphur from them. If they could be worked on an economic