

PETROGRAPHY.

The rocks of the various geological formations should be arranged so as to exhibit their petrographical characters, and in addition, a second series should present the succession of these rocks in natural order and should be accompanied by labels pointing out the thickness of the various strata. Such material would be most valuable to oil and gas operators and to all engaged on the stratified series.

PALAEONTOLOGY.

A most urgent need is a complete exhibit of the fossils of the province. The value of such a collection to the scientific student is at once apparent. From our essentially economic standpoint it is important that mining men should have a means at hand to identify the age of the strata encountered. This can only be accomplished by giving them access to a well named and properly arranged series for comparison.

MINING AND METALLURGY.

The crude products of the mine should be supplemented by material to show every stage in the process of metallurgical treatment. Carefully prepared explanatory notes should accompany such an exhibit so as to present to the eye of the student, the miner and the metallurgist an illustrated compendium of the industrial treatment of ores and other products of the mine. This particular part of the work might be made to include certain phases of chemical manufacture, and I would suggest that the co-operation of the Canadian Society of Chemical Industry be asked in the matter.

Much as we might like to see the biological sciences and the fine arts represented, and represented they will be in time, our immediate concern is to take some steps towards the establishment of a museum of geology and mining in the Province of Ontario.

The greatest want is a suitable building. Once given a home and proper provision made for support, much valuable material could at once be put in position. The Bureau of Mines is possessed of valuable collections of economic minerals. The School of Practical Science has within its walls