APPENDIX,

into this material. The derivation of the scapolito from the plagioclase Microscopic seems undoubted, and if further corroboration is needed an inspection of rocks. of the other two slides (° and 10) would convince the most sceptical of this interesting fact. The augite is very largely in process of alteration into a deep green, strongly trichroic hornblende, and no better or more instructive example of uralitization could be desired. A little sphene and calcite are both represented in the thin section. Some of the individuals of pyroxene show what is usually referred to as 'schillerization products' consisting of dots and dashes of a brownish, nearly opaque material, arranged in parallel lines at right angles with the cleavage. These are more perfectly developed in the unaltered pyroxene, but generally fade away, disappearing altogether in the uralite.

No. 9.-Fournier Mine.-Lot 14, Concession 1., Township of South Sherbrooke, Lanark County.

Is a dark-gray basic rock, much finer-grained than the specimen from which No. 8 was taken, and shows a decided foliation, consisting for the most part in the alternation of lighter and darker bands. It is, however, very similar in composition. The chief constituents are plagioclase, scapolite, pyroxcne and hornblendc. The derivation of the scapolite from the plagioclase is undoubted. The scapolite constitutes more than half the lighter portion of the slide. Much of the scapolite and plagioclase contain numerous very fine rod-like inclusions which intersect each other at various angles. The uralitization of the pale-green pyroxene is much more complete, and most of the individuals are wholly converted into a dark-green compact, strongly trichroic hornblende; many fragments, however, still show remnants of the unaltered pyroxene, so that the source of the hornblende is undoubted. A littlo biotite is present, as also apatite, pyrite and sphene. Some of the sphenes contain black opaque cores, probably ilmenite. Calcite is abundant.

No. 10.-Fournier Mine.-Lot 14. Concession I., Township of South Sherbrooke, Lanark County.

No. 10 is taken from the same hand specimen, closer to the ore body. Indeed it forms the rock immediately in contact with the iron ore. The band from which it was cut is of a dark-green colour, brightly glistening on planes of cleavage, and showing, microscopically, only a very small proportion of the felspathic constituents. Under

INGALL.