## General Application.

The Moyie Sill does not teach much that is alsolutely new among the principles of petrology: The main purpose of the writer has been, on the other limad, to emphasize through the witness of an musually well exposed exmuple in nature, the importnnce of both nammatic assimilation and magmatic differentiation. 'The ntost signiticant single feature of the Moyie and neighboring sills ns of the Minnesofn mud Ontario intrusives is their evidences of grovitutive nuljnstment in magma. That is the most practical result of the investigation. If the principle is once thoroughly established, it musl take it prominent place in petrolagical theory. This is true whatever be the origin of the magmas trom which igneons rocks have been derived. The principle will evidently upply whether a magma were the compound !roduct of assimilntion ly an earlier magma or whether it were the compound prodact of fusion through the rising of the isogeotherns in sediments, schists or amcient igneous terralies.
"In the toregoing distussion the sewadary origin of certain granites lins heen dedaced from the study of intrusise sills or sheets. It is clearly by no means necessary thut the igneons rock body should have the sill form. The wider and more inpmont question is immediately at hand: does the assimilation-differentiation theory aplly to truly .byssal contacts? Do the granites of stocks mod batholiths sometimes originate in a manner similar or analogous tw that outlined for sitls?.0 The writer has briefly noted general reasons atfording uftirmative unswers to these questions. (Cf. Ameriem Joumal of seience, Vol. XV., 1903, p. 269, Vol. XV1., 1903, p. 107).
.'The difficulty of discussing these questions is largely owing to the alsence of accessille lower contacts in the arerage granite body of large size. All the more valuable must be the information derived from intrusive sheets. The comparative rarity of such ruck-retations as are described in

