

*Augite-trachyte.* A few of the hand specimens are typical trachytes, showing beautiful flow structures, and consisting essentially of orthoclase in two generations with augite as the ferro-magnesian mineral. Titanite and magnetite are common and persistent accessories, and brown garnets are usually present. Whether these specimens of augite-trachyte were taken from actual flows or whether they are merely rock fragments in the breccias, is not clear from the data accompanying them. A study of the breccias, however, shows that fragments of augite-trachyte are quite common constituents of these pyroclastic rocks. The composition of the majority of the crystal tuffs is also distinctly trachytic.



Fig. 3. Analcite replaced by calcite: crossed nicols: actual field is 2.5 mm. The mineral with octagonal outline in the centre of the field is analcite, now almost entirely replaced by calcite (white).

*Tinguaita.* One hand specimen only in the collection illustrates this type. It is a holocrystalline porphyritic rock with phenocrysts of orthoclase (over an inch in diameter) and augite set in a ground mass of orthoclase laths, nephelite and many aegirite prisms and needles. This rock is interesting