

(3) "The composition and paragenesis of the hornblendes of the Glen Tilt Complex, Perthshire." By Dr. W. A. Deer.

Hornblendes are the dominant ferromagnesian minerals in the intermediate and basic rocks of the Glen Tilt Complex. Nine hornblendes from the diorites, appinites, hornblendite and hornblende-schist xenoliths, and the injected hornblende-schist of the country rock have been examined chemically and it is considered that the results may give some indication of the history and mode of formation of the rocks in which the hornblendes occur and will also indicate the possible range of composition of common amphiboles within the diorites and related rocks of a single complex. Large differences in composition are found between the early and the later hornblendes.

(4) "Russellite, a new British mineral." By Mr. F. A. Bannister and Dr. M. H. Hey.

The new mineral, which occurs sparingly at the Castle-an-Dinas Wolfram mine, St. Columb Major, Cornwall, is a mixed crystal of bismuth and tungstic oxides approximating to the composition $\text{Bi}_2\text{O}_3 \cdot \text{WO}_3$. The X-ray data indicate that it is not a bismuth tungstate as at first thought. The minute crystals are tetragonal, a 5.42, c 11.3 Å., space group D_{2d}^2 , and the repeat is $(\text{Bi}, \text{W})_4\text{O}_{12}$. A description of the occurrence and accompanying minerals by the discoverer, Mr. Arthur Russell, is appended.

(5) "A re-examination of cliftonite." By Dr. M. H. Hey.

At the suggestion of Dr. H. Berman, an X-ray examination has been made of cliftonite (L. Fletcher, 1887). It proves to consist of graphite micro-crystals arranged with their c -axes parallel to the three tetrad axes of the cubes. This suggests that it is probable that the crystals are pseudomorphs, but the original mineral has not been identified.

ANNOUNCEMENT.

CLOUGH MEMORIAL RESEARCH FUND.

This fund was instituted in 1935 for the purpose of encouraging geological research in Scotland and the North of England. The North of England is defined as comprising the counties of Northumberland, Cumberland, Durham, Westmoreland, and Yorkshire. Under the terms of administration of the fund a sum of approximately £30 is available annually.

Applications for grants are invited for the period, 1st April, 1938, to 31st March, 1939. These applications should state:—

1. The nature of the research to be undertaken.
2. The amount of grant desired.
3. The specific purpose for which the grant will be used, e.g. travelling expenses, maintenance in the field, excavation of critical sections, etc.
4. Whether any other grant-in-aid has been obtained or applied for.

Applications must be in the hands of the Secretary, Clough Research Fund Committee, Edinburgh Geological Society, Synod Hall, Castle Terrace, Edinburgh, not later than 1st February, 1938.