

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, November 19th, 1895.

Prof. N. S. MASKELYNE, F.R.S., President, in the Chair.

Mr. R. C. Webb and the Rev. Mark Fletcher were elected Ordinary Members of the Society.

ANNIVERSARY MEETING.

Held in the Apartments of the Geological Society, November 19th, 1895.

Prof. N. S. MASKELYNE, F.R.S., President, in the Chair.

Seventeen Members and three visitors were present.

The following Report of Council for the Session 1894-5 was read by the Secretary :—

REPORT.

The Balance Sheet for the year ending December 31st, 1894, which was issued with Number 49 of the Journal, showed that the state of the finances of the Society continued to be eminently satisfactory : the Assets (exclusive of the Stock of the Journal and the Library) amounting to £382 6s. 1½d. The number of existing Members who had compounded before December 31st, 1894, for their Annual Subscription was 37.

During the Session 1894-5, one Member, Mr. Patrick Dudgeon, for many years a Trustee of the invested funds of the Society, has been removed by death ; two new Members have been elected ; two Corresponding Members (Professors Johnstrup and J. D. Dana) have died ; and three new Corresponding Members (Dr. Brezina, Professors Klein and Brögger) have been added to the List. The number of Members of the Society is now 132 : of these, 110 are Ordinary Members and 22 are Corresponding Members.

Mr. R. H. Scott, M.A., F.R.S., Past-President of the Society, was appointed to the Trusteeship vacated through the death of Mr. Dudgeon.

Four Meetings have been held during the year, all in London, and (by kind permission) in the Apartments of the Geological Society, Burlington House.

Two Numbers of the Journal, Nos. 49 and 50, have been issued since the last Anniversary Meeting. The principal papers in No. 49 were those by Professor Church and Messrs. Prior and Spencer. The former author gave the Society an account of various researches which he had made into the chemical composition of certain native arsenates and phosphates, particular attention being paid to the degree of tenacity with which the water of the hydrous species was held: Professor Church also described a basic ferric sulphate from Anglesey. Messrs. Prior and Spencer gave a careful description, chemical and crystallographic, of a rare mineral from Bolivia, Augelite, a hydrous aluminium phosphate. To the same Number Professor Bonney contributed a note on cone-in-cone structure, pointing out that the structure, though primarily due to crystallisation, owes its development to contraction subsequent thereto. Mr. Dudgeon placed on record the occurrence of mispickel in the Stewartry of Kirkcudbright, and Professor Heddle and Mr. Thomson described the mode of occurrence and the characters of Delessite in Cantyre. No. 50 contained an important paper by Professor Judd, in which he showed that corundum has three sets of structure-planes, but that none of them can be regarded as true cleavage. The same author described the occurrence of corundum-rock, and of other large masses, each consisting essentially of material belonging to a single mineral species. The Earl of Berkeley contributed the result of his study of the methods of accurately determining the densities of crystals. An elaborate paper by Mr. Spencer recorded his researches into the mineralogical characters of Enargite; while Dr. Hussak and Mr. Prior described two new minerals—Lewisite, a titano-antimonate of calcium and iron; and Zirkelite, a zirconate and titanate of calcium.

The Abstracts in the two Numbers have been of an interesting and useful character: for these the Society is indebted to the kindness of Messrs. Harker and Spencer.

On the motion of the Chairman, seconded by Mr. Scott, the Report of the Council was adopted.

Mr. Rudler and Mr. Pringle were nominated scrutineers; they reported that 28 voting papers had been returned, and that the following list of Officers and Council had been unanimously approved

<i>President.</i>	PROF. N. S. MASKELYNE, F.R.S.
<i>Vice-Presidents.</i>	REV. S. HAUGHTON, M.D., .R.S. DR. HUGO MÜLLER, F.R.S.
<i>Treasurer.</i>	MR. F. W. RUDLER, F.G.S.
<i>Foreign Secretary.</i>	PROF. J. W. JUDD, F.R.S.
<i>General Secretary.</i>	MR. L. FLETCHER, F.R.S.
<i>Ordinary Members of Council.</i>	PROF. J. GEIKIE, LL.D., F.R.S., L. & E. MR. A. HUTCHINSON, M.A., Ph.D. MR. B. KITTO, F.G.S. LIEUT.-GEN. C. A. McMAHON, F.G.S.

In addition to the members not requiring re-election, PROF. GREEN, MR. HARKER, PROF. LEWIS, MR. PRINGLE, MR. PRIOR, MR. THOMSON, MR. TUTTON and MR. WATTS; and in place of the retiring Members, PROF. CHURCH, PROF. LE NEVE FOSTER, MR. MIERS and PROF. MACADAM.

Messrs. J. H. Collins and B. Kitto were elected Auditors of the accounts of the Society.

A vote of thanks to the Geological Society for the use of its Apartments was carried with acclamation.

The following paper was read :—

On Homogeneous Structures and the symmetrical partitioning of them : by Mr. William Barlow, F.G.S. [p. 119]. The paper was illustrated by numerous models : Professor Herschel submitted for inspection a large series of models bearing upon the same subject.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, February 4th, 1896.

MR. W. W. WATTS, M.A., F.G.S., in the Chair.

The resignation of Mr. Vaughan Hughes was accepted.

GENERAL MEETING.

Held in the Apartments of the Geological Society, February 4th, 1896.

MR. W. W. WATTS, M.A., F.G.S., in the Chair.

Thirteen Members were present.

The following papers were read :—

1. On fibrous and massive forms of Calcite and Aragonite: by Mr. L. J. Spencer.
2. On associated globular and rhombohedral forms from Botallack, Cornwall: by Mr. F. Rutley.
3. On the occurrence of rocks allied to Monchiquite at Fernando Noronha: by Mr. G. T. Prior.
4. On a method of determining the optic axial angle in cases where plate is oblique to a bisectrix: by Mr. W. J. Pope.

Specimens were exhibited in illustration of the last three papers. Mr. Pope also demonstrated the phosphorescence resulting from fracture of crystals of saccharin, a property of the substance discovered by him.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, April 14th, 1896.

PROF. N. S. MASKELYNE, F.R.S., President, in the Chair.

The resignation of Mr. Townshend Hall was announced.

GENERAL MEETING.

Held in the Apartments of the Geological Society, April 14th, 1896.

PROF. N. S. MASKELYNE, F.R.S., President, in the Chair.

Fifteen Members and two visitors were present.

The following papers read :—

1. Some lecture-room apparatus for illustrating the elementary principles of Crystallography: by Mr. C. J. Woodward.
2. On Wolfsbergite from Bolivia, and the probable identity of Wolfsbergite and Guejarite: by Mr. L. J. Spencer.
3. On some hitherto undescribed British pseudomorphs: by Professor H. A. Miers.
4. Note on the relations of Enstatite and Olivine to the Humite group: by Professor W. J. Lewis.

5. On the Micæ of the Three Rock Mountain, County Dublin, and on the presence of copper in the mica of Glencullen, County Wicklow : by Professor J. P. O'Reilly (communicated by Mr. F. Rutley).

Mr. Woodward showed a convenient method of marking zones on a blackened india-rubber ball, constructed crystal figures on a blackboard by stretching coloured elastic bands round pins inserted at particular points in the board, and exhibited an adjustable triad of coloured rods representing crystallographic axes.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, June 23rd, 1896.

Prof. N. S. MASKELYNE, F.R.S., President, in the Chair.

The death of M. Daubr e, corresponding Member, was announced.

Mr. Louis Wills was elected to the ordinary Membership of the Society.

Mr. Barlow, Prof. Church, Mr. Miers, Mr. Pope, were selected for nomination to replace the four retiring Members of the Council (Messrs. Lewis, Pringle, Prior and Thomson).

GENERAL MEETING.

Held in the Apartments of the Geological Society, June 23rd, 1896.

Prof. N. S. MASKELYNE, F.R.S., President, in the Chair.

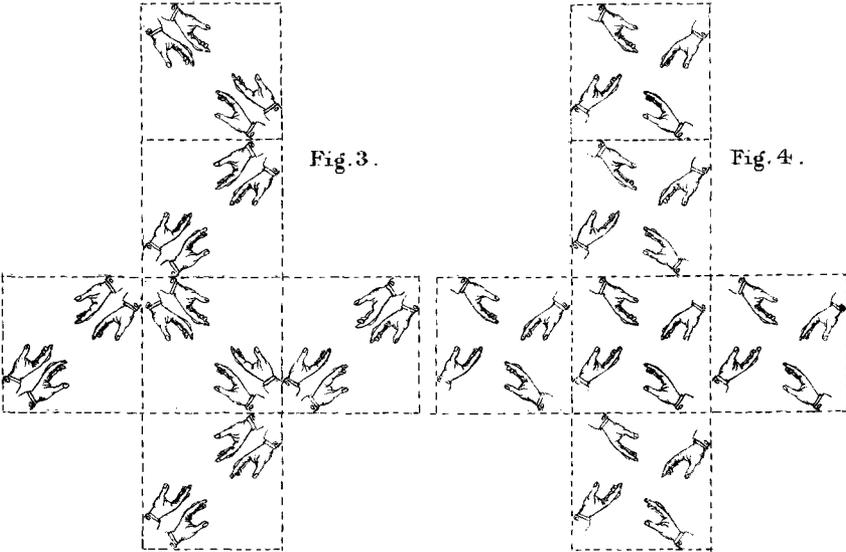
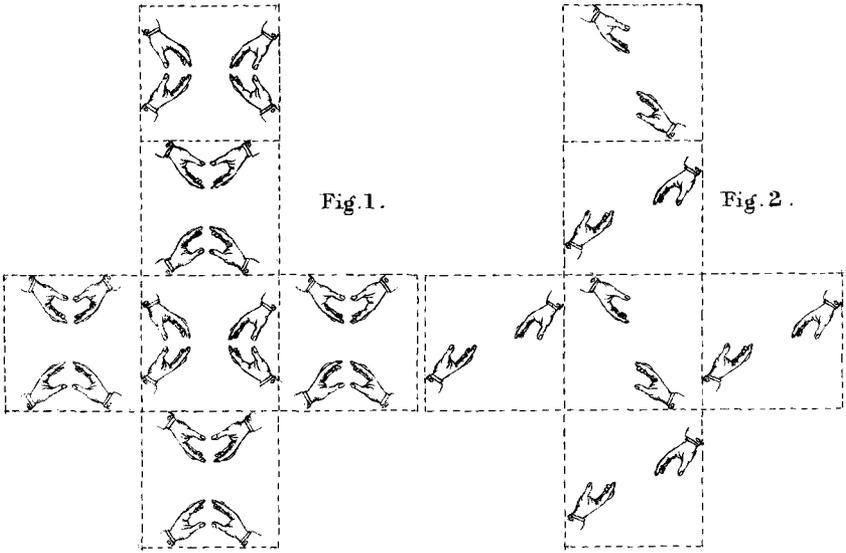
Fourteen Members were present.

The following papers were read :—

1. Notes on a biotite-cyanite-cordierite rock from the Upper Satlej Valley, N.W. Himalayas : by Lieut.-Gen. C. A. McMahon, V.P.G.S. [p. 141].

2. Homogeneous structures that cannot be partitioned into cells which are all of the same shape without impairing the symmetry (illustrated by models) : by William Barlow, Esq.

The Secretary submitted for inspection a specimen of the noble opal from New South Wales, and three specimens of the Swedish mineral reported to be chemically identical with the Scotch Edingtonite, but to be orthorhombic and optically biaxial.



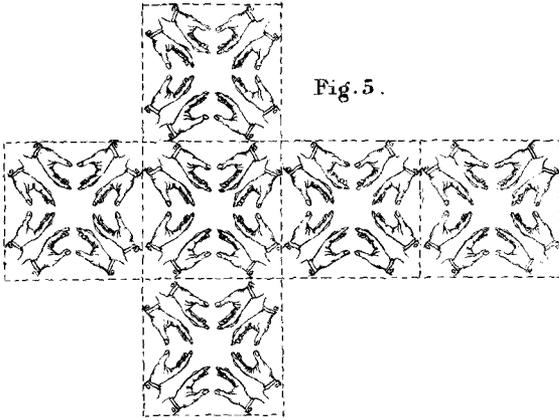


Fig. 5.

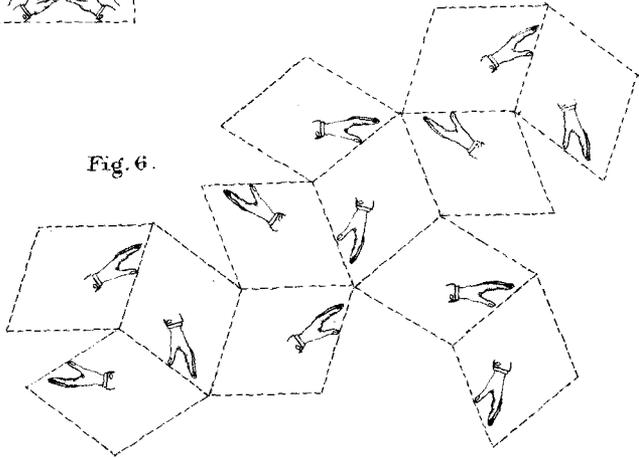


Fig. 6.

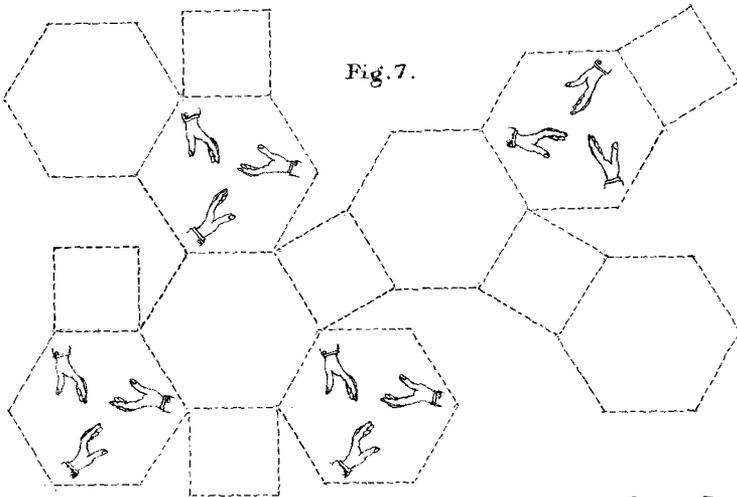


Fig. 7.

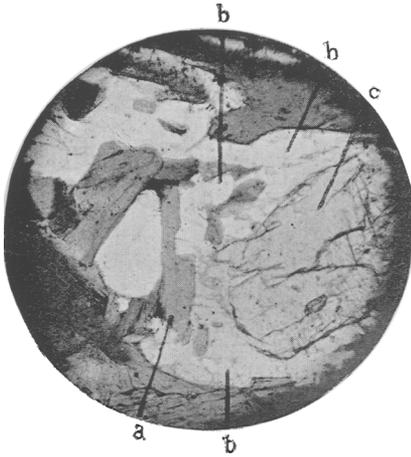


FIG. 1.—Cordierite, corroding biotite and cyanite.

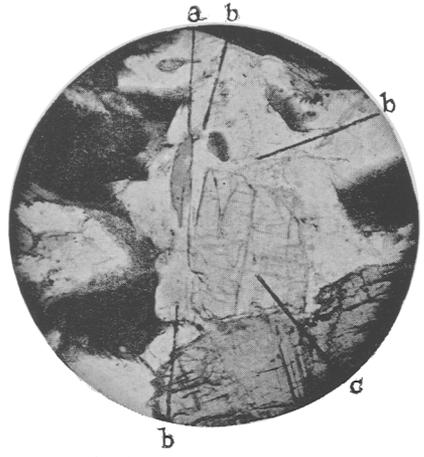


FIG. 2.—Cordierite, corroding biotite and cyanite.

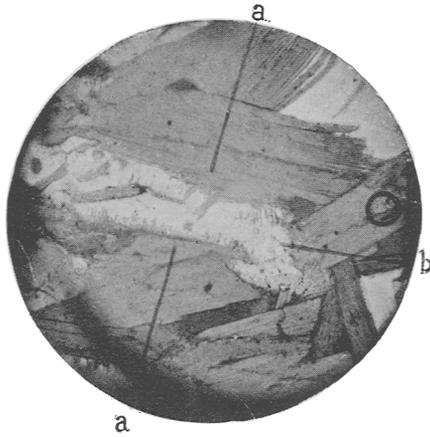


FIG. 3.—Cordierite intrusive in biotite.

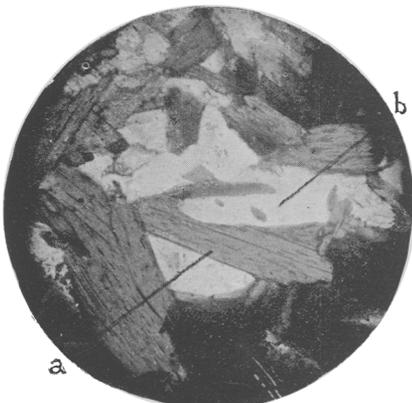


FIG. 4.—Cordierite corroding and cutting obliquely across laminae of biotite.

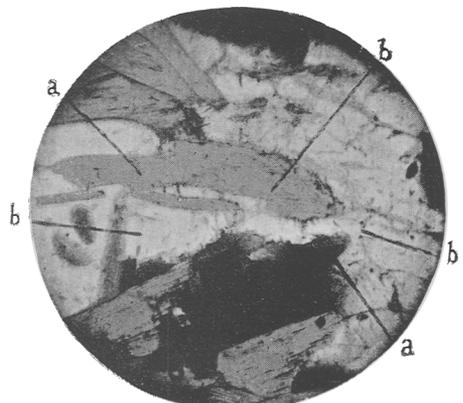


FIG. 5.—Cordierite, corroding and intruding into biotite.

(a) Biotite. (b) Cordierite. (c) Cyanite.
 Between (a) (a) of figs. 3 and 5, fringes of biotite tags can be seen along the edges of the biotite with the