

PROCEEDINGS  
OF THE  
MINERALOGICAL SOCIETY.

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EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, November 9, 1915,  
at 5 p.m.*

Dr. A. E. H. TUTTON, F.R.S., President, in the Chair.

Mr. William Alfred Richardson was provisionally elected an Ordinary Member of the Society. The death of Mr. T. J. Gibb was announced.

The approval of the Council was given to the Trustees for conversion of the Society's holding of  $2\frac{1}{2}$  % Consols into  $4\frac{1}{2}$  % War Loan.

The following were selected as the dates of the meetings in 1916: Tuesdays, January 18, March 21, June 20, and November 7 (Anniversary Meeting).

The draft Annual Report of Council, submitted by the Secretary, was read and approved.

A vote of thanks was passed to Dr. G. F. Herbert Smith for sending notices of the meetings of the Society to 'Nature', and other periodicals.

ANNIVERSARY MEETING.

*Held in the Apartments of the Geological Society, November 9, 1915,  
at 5.30 p.m.*

Dr. A. E. H. TUTTON, M.A., F.R.S., President, in the Chair.

Twenty-one Members and two Visitors were present.

The election of Mr. W. A. Richardson as an Ordinary Member of the Society was confirmed.

The President nominated Messrs. Barker and Hilton to act as scrutineers of the voting-papers for the election of Officers and Council. The scrutineers reported that forty-one voting-papers had been returned

to the Secretary, and that the list as nominated by the Council was approved, namely :

*President.* W. Barlow, F.R.S.

*Vice-Presidents.* Prof. H. L. Bowman, M.A., D.Sc., F.G.S.

A. Hutchinson, M.A., Ph.D., F.G.S.

*Treasurer.* Sir William P. Beale, Bart., K.C., M.P., F.G.S., F.C.S.

*General Secretary.* G. T. Prior, M.A., D.Sc., F.R.S.

*Foreign Secretary.* Prof. W. W. Watts, LL.D., Sc.D., F.R.S.

*Editor of the Journal.* L. J. Spencer, M.A., F.G.S.

*Ordinary Members of Council.*

F. N. Ashcroft, M.A., F.C.S.

T. V. Barker, M.A., B.Sc., F.C.S.

G. Barrow, F.G.S.

Prof. C. G. Cullis, D.Sc., F.G.S.

J. W. Evans, LL.B., D.Sc., F.G.S.

Prof. H. Hilton, M.A., D.Sc.

F. H. Hatch, Ph.D., F.G.S.

J. Allen Howe, B.Sc., F.G.S.

F. P. Mennell, F.G.S.

Arthur Russell.

W. Campbell Smith, M.A., F.G.S.

J. J. Harris Teall, M.A., LL.D.,  
D.Sc., F.R.S.

The following ANNUAL REPORT OF COUNCIL was read:—

During the Session 1914-15 four meetings have been held (by kind permission) in the Apartments of the Geological Society, Burlington House, W., at which twenty-one papers were read. Two numbers of the Journal have been issued, viz. No. 80 published in December 1914 and No. 81 in September 1915. These contain seventeen papers, two of which by Prof. G. Cesaro, of Liège, now an exile in England, are in the original French.

The balance-sheet of the year ending December 31, 1914, shows that the financial position of the Society continues to be satisfactory. The assets (exclusive of the Library and stock of the Journal) amounted to £891 7s. 10d., and the liabilities to £18 2s. 2d. The value of the Stock invested in the names of the Trustees of the Society was on that date £756 18s. 2d., corresponding to £14 5s. 6d. for each Life-Member. During the Session a further donation of £5 was voted towards the expenses of publication of the International Annual Tables of Constants.

During the Session 1914-15 the Society has lost by death one Honorary Member, Prof. G. Strüver, two past-Presidents, Sir Arthur Church and Dr. Hugo Müller, and four Ordinary Members. One Ordinary Member has resigned. Two Ordinary Members have been elected. The total number of members on November 8, 1915, was 141, of whom sixteen are Honorary. Of the Ordinary Members fifty-three have compounded for their annual subscription.

The Council has to congratulate the Society on its continued scientific activity and prosperity during the war.

On the motion of Mr. Mennell, seconded by Mr. Collingridge, the Report was adopted.

A vote of thanks to the Council of the Geological Society for permission to meet in the Apartments of the Society was carried.

The dates of meeting for 1916, proposed by the Council, were approved.

The following papers were then read :—

1. Crystallographic relations of allied substances traced by means of the law of valency-volumes : by Mr. W. Barlow (vol. xvii, p. 314).

2. On Torbernite : by Mr. A. F. Hallimond (vol. xvii, p. 326).

3. On the solution of the problem of four tautozonal poles : by Mr. T. V. Barker.

4. Crystals of iron phosphide from a blast-furnace : by Mr. L. J. Spencer (vol. xvii, p. 340).

5. The meteoric stone of Cronstad, Orange River Colony (p. 10).

Mr. G. Barrow exhibited a new magnetic separator, and Dr. Tutton showed models of crystals made with plates of mica.

#### EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, January 18, 1916,  
at 4.30 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

It was decided that original members of the Society who are still paying annual subscriptions should be made life-members.

Prof. C. G. Cullis and Dr. Herbert Smith were elected Auditors of the accounts for the year ending December 31, 1915.

The President, the General Secretary, and the Editor, in conjunction with Sir Lazarus Fletcher and Sir Henry Miers, were appointed Editorial Committee for the Journal.

#### GENERAL MEETING.

*Held in the Apartments of the Geological Society, January 18, 1916,  
at 5.30 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

Nineteen Members and three Visitors were present.

The following papers were read :—

1. A simple demonstration of the law of Miller : by Prof. G. Cesàro (vol. xvii, p. 324).

2. The meteorite of Daniel's Kuil: by Dr. G. T. Prior (p. 18).
  3. On the relationships of meteorites: by G. T. Prior (p. 26).
  4. The isolation of the directions-image of a section of a mineral in a rock-slice: by Dr. J. W. Evans (p. 45).
  5. A new method of determining the angular direction represented by a point in the directions-image: by Dr. J. W. Evans (p. 52).
  6. A (seventh) list of new mineral names: by Mr. L. J. Spencer (vol. xvii, p. 344).
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## EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, March 21, 1916,  
at 5 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

The audited balance-sheet for the year ending December 31, 1916, was approved, and the Secretary was instructed to insert it in the Minutes and to publish it in the next number of the Journal.

The deaths of Prof. E. Ludwig and Prof. J. W. Judd were announced, and the Secretary was requested to send a letter of condolence to Mrs. Judd.

## GENERAL MEETING.

*Held in the Apartments of the Geological Society, March 21, 1916.  
at 5.30 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

Eighteen Members and one Visitor were present.

The following papers were read:—

1. An improvement in the methods of determining the refractive indices of minerals under the microscope: by Dr. J. W. Evans.
2. On the alteration of Tourmaline: by Dr. William R. Jones.
3. A butterfly-twin of Gypsum: by Mr. L. J. Spencer (p. 82).

Dr. Tutton drew attention to an interesting phenomenon in calcite when cut in a special form of prism; and Dr. Jones exhibited specimens in illustration of his paper.

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## EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, June 20, 1916,  
at 5 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

The death of Mr. J. H. Collins, one of the founders of the Society, was announced.

The following changes in the list of Officers and Council were approved for recommendation to the Members of the Society: Ordinary Members of Council—Messrs. Collingridge, Hopkins, Herbert Smith, and Thomas (and if necessary Mr. Crook) in place of the four retiring Members of Council, Messrs. Ashcroft, Hilton, Russell, and Sir J. J. H. Teall.

The Editor's proposal to advertise for sale at a low price sets of the Journal, in order to reduce the large stock, was approved.

## GENERAL MEETING.

*Held in the Apartments of the Geological Society, June 20, 1916,  
at 5.30 p.m.*

Mr. W. BARLOW, F.R.S., President, in the Chair.

Fifteen Members were present.

The following papers were read:—

1. The meteorites of Khairpur and Soko-Banja : by Dr. G. T. Prior (pp. 17 and 22).
2. The classification of meteorites : by Dr. G. T. Prior (p. 26).
3. The relations of equivalent twinning operations : by Dr. J. W. Evans.
4. On volcanic rocks from Angola : by Mr. A. Holmes (p. 58).
5. Note on a new occurrence of gold in Cornwall : by Mr. Arthur Russell.
6. Spencerite, a new zinc phosphate from British Columbia : by Prof. T. L. Walker (p. 76).
7. On a magnesian Tourmaline from Renfrew, Canada : by Dr. E. L. Bruce.

Specimens of spencerite and of volcanic rocks from Angola were exhibited.

# MINERALOGICAL SOCIETY.

## ABSTRACT OF RECEIPTS AND PAYMENTS FROM JANUARY 1 TO DECEMBER 31, 1915.

RECEIPTS.			PAYMENTS.		
	£	s. d.		£	s. d.
Balance from 1914—			Printing Magazine (No. 80)		18 2 9
Bank.	81	7 9	Authors' copies		3 7 0
Office.		4 1	Illustrations		3 9 6
	81	11 10			19 19 3
Subscriptions—(1) current	45	2 0	Printing Magazine (No. 81)		28 15 0
(2) arrears	17	17 0	Authors' copies		5 1 6
(3) advance	2	2 0	Illustrations		5 6 0
	65	1 0			39 2 6
Entrance fees	8	3 0	Miscellaneous Printing (Williams & Strahan)		5 15 6
Sale of publications—			Editor's Honorarium (1914)		10 10 0
By Publishers	32	14 10	G. Savigar for care of stock of Publications (1914)		1 1 0
" G. Savigar		8 0	Librarian (Prof. W. J. Lewis) for binding		1 0 0
	32	2 10	Porter's Fee at meetings		1 0 0
Dividends—			Fee for manipulating lantern (1914)		10 0 0
Consols	25	13 5	Donation to 'Tables Annuelles de Constatantes'		5 0 0
War Loan (1 December)	15	5 7			
	40	19 0	Postage and Parcels—		
			Magazine	3	12 10
			G. Savigar (1914)		7 11
			Hon. Secretary (1914)		3 11
			Hon. Treasurer (1914)		9 4
					4 14 0
			Investments—		
			Re-investing dividends.	12	5 3
			Investment out of balance	45	0 0
			Paid on conversion of Consols into War Stock	6	8 0
			Broker's fees		6 0
					63 19 3
			Bank Charges		9
			Balance at Bank	75	8 6
			Less Office debit	4	3 1
					71 5 5
					£228 17 8

Examined and compared with the vouchers, and found correct.  
11 February, 1916.

(Signed) C. GILBERT CULLIS } Auditors.  
G. F. HERBERT SMITH }

## BALANCE SHEET.

DECEMBER 31, 1915.

LIABILITIES.		£ s. d.		ASSETS.		£ s. d.	
Owing for Editor's Honorarium (1915)	.	10	10	Balance at Bank	.	75	8
" G. Savigar for care of stock of Publications (1915)	.	1	1	Less debit Balance in Office	.	4	3
" Do. for postage (1915)	.		5				1
" Hon. Secretary for postage (1915)	.		8	War Loan, £798 8s. 4d. (valued at 97)	.		71
" Hon. Treasurer for postage (1915)	.		10	Sale of Publications (1915)—			774
" fee for manipulating lantern (1915)	.		4	Owing from Publishers.	.	20	8
Excess of assets over liabilities	.		0	" G. Savigar	.	2	15
			11	Arrears of Subscriptions (58) valued at	.		6
						23	3
						42	0
						0	0
						£911	7
						9	

Number of Life Members, 58.

The stock of Publications and the value of the Library are not included in the above assets.  
 (Signed) WM. P. BEALE,  
*Hon. Treasurer.*  
 18 February, 1916.