

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 19, 1932, at 4.15 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Mr. John Brooke Scrivenor was provisionally re-elected an Ordinary Member of the Society.

The resignation of Mr. J. Reekie was received and accepted. Messrs. A. E. Mitchell and N. W. Wilson were removed from the List of Members in accordance with the terms of the bye-laws.

The Treasurer reported the results of his inquiries as to the cost of obtaining a Royal Charter. It was decided that no action be taken for the present.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 19, 1932, at 5.30 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Twenty Members and two Visitors were present.

The re-election of Mr. J. B. Scrivenor as an Ordinary Member of the Society was confirmed.

Mr. F. N. Ashcroft exhibited photographs and lantern-slides of some Nova Scotian zeolite occurrences.

The following papers were then read:—

1. A new pallasite from Alice Springs, Central Australia: by Dr. L. J. Spencer (p. 38).
2. An account of British mineral collectors and dealers in the 17th, 18th, and 19th centuries (continued): by Mr. Arthur Russell.
3. Studies on the zeolites. Part III. Natrolite and metanatrolite: by Mr. M. H. Hey (p. 243).

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., March 15, 1932, at 4 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Dr. Arthur Ernest Mourant was provisionally elected an Ordinary Member of the Society.

The resignation of Mr. H. B. Milner was received and accepted.

Prof. A. Hutchinson proposed an alteration in the days on which meetings should be held, and it was decided that the meetings in 1933 should be held on Thursdays.

The vacancy in the list of Honorary Members was considered and a voting list was drawn up.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., March 15, 1932, at 5.30 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Twenty-six Members and three Visitors were present.

The election of Dr. A. E. Mourant as an Ordinary Member of the Society was confirmed.

Mr. J. B. Scrivenor exhibited magnesium borate from Kinta, Federated Malay States; and Mr. Arthur Russell exhibited a large specimen of galena and a fine sphere of witherite from Wanlockhead, Dumfriesshire, and orthite crystals from Cefnbychan, Merionethshire.

The following papers were then read:—

1. The distinction of pyrite from marcasite in nodular growths: by Mr. F. A. Bannister (p. 179).
2. On the changed composition of an anorthoclase-bearing rock-glass: by Dr. L. Hawkes and Dr. H. F. Harwood (p. 163).
3. The spherulitic rhyolites of Jersey: by Dr. A. E. Mourant (p. 227).
4. An albitite from Ve Skerries, Shetland Isles: by Dr. F. Walker (p. 239).

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., June 7, 1932, at 4 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

The dates of meetings for 1933 were discussed and in pursuance of the decision taken at the last meeting it was decided that these should be held on the following *Thursdays*: January 26, March 23, June 15, and November 9.

The list of Officers and Members of Council to be submitted to the Members for election at the next Anniversary Meeting was considered. The retiring members were: Dr. G. F. Herbert Smith (on completing his third year as Vice-President); and the following Ordinary Members of Council: Dr. A. Brammall, Mr. G. M. Davies, Prof. W. G. Fearnshides, and Miss M. W. Porter. It was decided to ask Sir William Bragg to be Vice-President and failing him Mr. Arthur Russell. For Ordinary Members the result of the ballot was: previous members of Council, Prof. H. L. Bowman and Prof. P. G. H. Boswell; new members, Dr. F. C. Phillips and Dr. W. R. Jones.

The voting list for the vacancy in the list of Honorary Members having been discussed, a ballot was taken which resulted in the selection of Dr. H. S. Washington.

The General Secretary made a brief report on the excursion to Oxford on May 28, which was attended by nineteen members and four guests. The President proposed a hearty vote of thanks to Professor and Mrs. Bowman for their hospitality on that occasion. This was carried unanimously and the General Secretary was instructed to convey the thanks of the Society to Professor and Mrs. Bowman accordingly.

An application from the Deutsche Mineralogische Gesellschaft for an exchange of the 'Mineralogical Magazine' with the 'Fortschritte' was accepted.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., June 7, 1932, at 5.30 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Twenty-one Members and one Visitor were present.

The President announced that Dr. H. S. Washington had been provisionally elected as an Honorary Member, and he asked the

members present for confirmation. On a show of hands Dr. Washington was duly elected.

The following papers were then read :—

1. Legrandite, a new zinc arsenate: by Dr. J. Drugman and Mr. M. H. Hey (p. 175).

2. On the metamorphism produced by the combustion of hydrocarbons in the Tertiary sediments of south-west Persia: by Dr. W. F. P. McLintock (p. 207).

3. Determination of minerals in the Transvaal platinum concentrates by X-ray methods: by Mr. F. A. Bannister, with chemical analyses and syntheses by Mr. M. H. Hey (p. 188).

4. On bultfonteinite, a new fluorine-bearing hydrous calcium silicate from South Africa: by the late Mr. J. Parry, Mr. Alpheus F. Williams, and Dr. F. E. Wright (p. 145).

SPECIAL COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., September 29, 1932, at 4.30 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

This meeting was called by order of the President to fill two vacancies in the list of Ordinary Members of Council nominated for the voting list.

The Secretary announced that Sir William Bragg had been unable to accept nomination as Vice-President, and Mr. Arthur Russell had therefore been nominated as instructed by the minute of the Council Meeting of June 7. This had caused one vacancy in the list of Ordinary Members. The second vacancy had been created by the death on September 22 of Dr. F. H. Hatch. The names of various members voted on at the last meeting for nomination were read out, and it was decided to fill the two vacancies by nominating Dr. L. Hawkes and Mr. J. B. Scrivenor.

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., November 1, 1932, at 4 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Mr. Mark C. Bandy, Dr. Kenneth Wilson Earle, Miss Doris Livesey Reynolds, and Mr. Charles Arthur Silberrad were provisionally elected Ordinary Members of the Society.

Dr. H. F. Harwood and Mr. A. F. Hallimond were elected auditors.

The Treasurer reported that after consultation with Sir Henry Miers, the Society's holding of 5 % War Loan was converted into 3½ % War Loan in July last in accordance with the Government's conversion offer.

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

Dr. Spencer reported that the Committee appointed on November 4, 1930, to co-operate with the Committee on Nomenclature of the Mineralogical Society of America, had met and considered a report issued in 1932. It was agreed that Dr. Spencer, in the name of the Committee, should communicate direct with the American Committee.

Sir Henry Miers was asked to represent the Society at the celebration of the centenary of the Charter-date of the Philosophical Society of Cambridge.

The deaths of Prof. Louis Duparc (Honorary Member), Mr. George Barrow, Prof. J. W. Gregory, Dr. F. H. Hatch, Dr. G. F. Kunz, and Mr. C. J. Woodward were announced.

GENERAL (ANNIVERSARY) MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., November 1, 1932, at 5.30 p.m.*

Sir JOHN S. FLETT, F.R.S., President, in the Chair.

Thirty-four Members and two Visitors were present.

The chairman nominated Dr. W. Q. Kennedy and Dr. A. E. Mourant to act as scrutineers of the voting-papers for the election of Officers and Council.

The elections of Mr. M. C. Bandy, Dr. K. W. Earle, Miss D. L. Reynolds, and Mr. C. A. Silberrad as Ordinary Members of the Society were confirmed.

The General Secretary then read the following:—

ANNUAL REPORT OF COUNCIL.

During the session 1931-32 four ordinary meetings have been held. Seventeen papers have been read, and four numbers of the Mineralogical Magazine (Nos. 135-138) have been issued. No. 135 contains the index to vol. 22 and vol. 4 of Mineralogical Abstracts. Numbers 136-138 contain fourteen papers, occupying 206 pages, with eight plates, and 450 abstracts, occupying 144 pages.

The Council regrets to announce the death of Prof. Louis Duparc, an honorary member, who died on October 20, 1932; also of the following ordinary members, Mr. George Farrow, Prof. John Walter Gregory, Dr. Frederick Henry Hatch, Dr. George Frederick Kunz, and Mr. Charles Josiah Woodward. The last named was one of the members of the Crystallogical Society. During the year two ordinary members have resigned, and two have been removed from the list of members in accordance with bye-law 8. Five new members have been elected, and one re-elected, and Dr. H. S. Washington has been elected an Honorary Member, leaving the total membership on October 31, 1932, at 222, including nine honorary members.

At the Annual General Meeting held on November 3, 1931, the Council submitted to the membership certain amendments to the bye-laws. These amendments were adopted and came into force forthwith. At the time that these amendments were under discussion the Council was advised that it was desirable that the Capital Monies, representing Composition Fees received, should be separated from the other Capital Monies of the Society. In consequence of this advice a Composition Fees Account has been created and £975 0s. 0d. 5% War Loan 1929-47 was allocated thereto at the close of the year. This stock, which was purchased at a cost of £1,129 14s. 7d. covers the Composition Fees received from the foundation of the Society up to December, 31, 1931. The actual amount so received was £1,128 15s. 0d. The 5% War Loan held by the Trustees, including that allocated to the Composition Fees Account, was converted into 3½% War Loan in accordance with the Government's conversion scheme in July last.

The accounts for the year ending December 31, 1931, showed, after the allocation of £975 5% War Loan 1929-47 to the newly established Composition Fees Account, an excess of assets (exclusive of the Library and stock of publications) over liabilities of £1,133 17s. 8d. The value of the stock invested in the names of the Trustees was on December 31, 1931, General Reserve £782 10s. 1d., Composition Fees Account £933 11s. 3d.

The Society's Library has received during the year 171 parts of periodicals and 14 separate copies of papers. Only 27 volumes have been borrowed. An exchange of periodicals has been entered into with the Deutsche Mineralogische Gesellschaft and Periodico di Mineralogia.

The Nomenclature Committee, appointed on November 4, 1930, has held one meeting to discuss the Report of the Committee appointed by the Mineralogical Society of America, and has reported to the Council.

At the suggestion of Dr. G. F. Herbert Smith inquiries have been made by the Treasurer as to the cost of procuring a Royal Charter, but in view of the expense entailed no further action was taken.

On May 28, nineteen members and four guests paid a visit to the mineral collections and laboratories in the Oxford University Museum. The party was received at the Museum by Prof. H. L. Bowman and his staff, and was afterwards entertained to tea by Prof. and Mrs. Bowman.

In order to suit the convenience of a considerable number of members residing outside London, it has been decided for the future to hold the meetings on Thursdays instead of Tuesdays as heretofore.

On the motion of Prof. H. Hilton, seconded by Mr. Harvey Collingridge, the report was adopted.

The scrutineers reported that fifty voting-papers had been returned to the Secretary, and that the following Officers and Ordinary Members of Council were declared elected :—

President. Sir John S. Flett, K.B.E., M.A., LL.D., D.Sc., F.R.S.

Vice-Presidents. Prof. C. Gilbert Cullis, D.Sc., F.G.S.

Arthur Russell, M.B.E.

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

General Secretary. W. Campbell Smith, M.C., T.D., M.A., F.G.S.

Foreign Secretary. Prof. A. Hutchinson, O.B.E., M.A., Ph.D., F.R.S.

Editor of the Journal. Dr. L. J. Spencer, M.A., Sc.D., F.R.S.

Ordinary Members of Council.

A. F. Hallimond, M.A., F.G.S.	Prof. P. G. H. Boswell, O.B.E.,
Sir Albert E. Kitson, C.M.G.,	D.Sc., A.R.C.S., F.R.S.
C.B.E., F.G.S.	Prof. H. L. Bowman, M.A., D.Sc.,
Prof. W. L. Bragg, O.B.E., M.A.,	F.G.S.
F.R.S.	Dr. L. Hawkes, D.Sc., F.G.S.
F. A. Bannister, M.A.	Dr. W. R. Jones, D.Sc., F.G.S.
Prof. H. H. Read, D.Sc., A.R.C.S.,	Dr. F. C. Phillips, M.A., Ph.D.,
F.G.S.	F.G.S.
Prof. C. E. Tilley, Ph.D., B.Sc.,	J. B. Scrivenor, I.S.O., M.A.,
A.I.C., F.G.S.	F.G.S.

A vote of thanks to the retiring Members of Council was proposed by the President.

A vote of thanks to the Geological Society of London for the use of the meeting rooms during the year was proposed by Dr. A. E. H. Tutton and seconded by Mr. F. A. Bannister. This was carried unanimously.

[continued on p. liv.]

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

RECEIPTS.		GENERAL PUR-	
	£	s.	d.
By Balances brought forward from 1931—			
1. At Bankers:			
(a) Current Account	25	8	4
(b) Deposit Account	225	0	0
2. In Office	0	7	2
Entrance Fees			250 15 6
Annual Subscriptions—			
1. Current year	159	12	0
2. Arrears	5	5	0
3. Advance	7	0	3
Sale of Publications—			
1. By Publishers, April 1, 1931–March 31, 1932. Sales at subscription rate £223 0s. 0d. and other sales £57 10s. 0d., less trade discount and commission £74 18s. 4d., and distribu- tion charges £12 18s. 11d.	192	12	9
2. By Custodian of Stock, 1932. £12 13s. 0d., less distribution charges £1 2s. 3d.	11	10	9
Advertisement Fees, £31 11s. 8d., less commission £6 6s. 4d.			204 3 6
Interest on Investments as received—			
1. £640 5% War Loan 1929–47, Inscribed Stock ¹	32	0	0
2. £105 4% Consolidated Loan 1957, Inscribed Stock	4	4	0
3. £100 4% Funding Loan 1960–90, Inscribed Stock	4	0	0
Deposit Interest			40 4 0
Bonus on conversion of £640 5% War Loan			4 0 4
One half of commission on conversion of £640 5% War Loan returned by Brokers			6 8 0
Small Receipts			0 16 0
Transfers from other accounts—			
1. From Library Fund Account, being the bal- ance to the credit of that account when closed in January 1932	1	2	6
2. From Composition Fees Account, being In- terest on Investments, Bonus on conversion of £975 5% War Loan, and one half of commission on that conversion returned by Brokers	59	14	5
			60 16 11
			£768 12 11

¹ Now £640 3½% War Loan 1952, Inscribed Stock.

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1932

POSES ACCOUNT.

	£	s.	d.	£	s.	d.
PAYMENTS.						
To Printing and distributing the Mineralogical Magazine Nos. 136-139 inclusive (Oxford University Press)—						
1. Printing	362	10	9			
2. Illustrations	62	9	3			
3. Authors' Separate Copies	36	10	6			
4. Distribution Charges	15	15	0			
				477	5	6
Printing and distributing notices of Meetings and other annual miscellaneous printing				17	6	3
Miscellaneous Printing, &c. (not annual)—						
1. List of Members (wrapper for)	1	17	6			
2. Notices of Excursion, printing and postage	2	7	6			
3. Treasurer's Notices	2	9	6			
				6	14	6
Expenses at Meetings—						
1. Operator of lantern	2	2	0			
2. Porter	1	0	0			
3. Tea	2	14	6			
				5	16	6
Care of Stock of Publications, J. Mugford, Annual Fee				1	1	0
Editor's Honorarium				50	0	0
Librarian's Honorarium				5	0	0
Postage—						
1. Hon. Secretary	0	19	6			
2. Editor	0	16	8			
3. Hon. Treasurer (not charged)	0	0	0			
4. Librarian	0	1	2			
				1	17	4
Bank charges and other small items				0	4	1
Balance, December 31, 1932—						
1. At Bankers:						
(a) Current Account	18	5	5			
(b) Deposit Account	185	0	0			
2. In Office	0	2	4			
				203	7	9

£768 12 11

Examined and compared with vouchers and found correct.

A. F. HALLIMOND }
H. F. HARWOOD } Auditors.

F. N. ASHCROFT, Hon. Treasurer.

January 18, 1933.

BALANCE

	DECEMBER	
LIABILITIES.	£ s. d.	£ s. d.
To Balance in hand as per Temporary Suspense Account (not published)		
At Bankers, Current Account		0 6 8
Sundry Creditors		0 0 0
Annual Subscriptions received in advance—		
1. Received in 1932 for 1933	6 6 0	
2. Received in 1932 for 1934	0 14 3	
		<u>7 0 3</u>
Excess of Assets over Liabilities		<u>1146 10 10</u>
		<u>£1153 17 9</u>

COMPOSITION FEES ACCOUNT

RECEIPTS	£ s. d.	£ s. d.
By Composition Fees received as per last Account .	1128 15 0	
Composition Fees received during year	0 0 0	
		<u>1128 15 0</u>
Income—		
1. Interest on Investments as received—£975 5% War Loan 1929-47, Inscribed Stock .	48 15 0	
2. Bonus on Conversion of £975 5% War Loan .	9 15 0	
3. One half of Commission on Conversion of £975 5% War Loan returned by Brokers .	1 4 5	
		<u>59 14 5</u>
		<u>£1188 9 5</u>

SHEET

31, 1932.

ASSETS.	£ s. d.	£ s. d.
By Balances—		
I. General Purposes Account:		
1. At Bankers:		
(a) Current Account	18 5 5	
(b) Deposit Account	185 0 0	
2. In Office	0 2 4	
	203 7 9	
II. Temporary Suspense Account (not published)	0 6 8	
Sundry Creditors—		
Publishers, Oxford University Press:		
1. Sale of Publications, April 1–Dec. 31, 1932	81 9 5	
2. Advertisement Fees	9 0 5	
	90 9 10	
Investments at Broker's Valuation—		
1. £640 3½ % War Loan 1952 Inscribed Stock at 98¼	632 0 0	
2. £105 4 % Consolidated Loan 1957, In- scribed Stock at 106¼ 'ex' div.	111 16 6	
3. £100 4 % Funding Loan 1960–90, In- scribed Stock at 108½	108 10 0	
	852 6 6	
Annual Subscriptions in Arrear valued at	6 6 0	
Entrance Fee in Arrear	1 1 0	
	£1153 17 9	

NOTE.—The value of the Library, that of the unsold Stock of Publications, and that of the Securities allocated to the Composition Fees Account are not included in the above assets.

January 18, 1933.

F. N. ASHCROFT, Hon. Treasurer.

YEAR ENDING DECEMBER 31, 1932.

PAYMENTS.	£ s. d.	£ s. d.
To Investments as per last Account—		
£975 5 % War Loan 1929–47, Inscribed Stock now converted into £975 3½ % War Loan 1952, Inscribed Stock, Valued by Brokers at £962 16s. 3d. (98¼)	1128 15 0	
Investments made during year	0 0 0	
	1128 15 0	
Income transferred to General Purposes Account	59 14 3	
	£1188 9 5	

Examined and compared with Vouchers and found correct.

A. F. HALLIMOND }
H. F. HARWOOD } Auditors.
F. N. ASHCROFT, Hon. Treasurer.

January 18, 1933.

The following papers were then read :—

1. On stichtite from Cunningsburgh, Shetland Islands : by Prof. H. H. Read and Mr. B. E. Dixon (p. 309).
 2. On quartz-kyanite-rocks from Unst, Shetland Islands, and their bearing on metamorphic differentiation : by Prof. H. H. Read (p. 317).
 3. A new meteoric iron found near Kyancutta, South Australia : by Dr. L. J. Spencer (p. 329).
 4. List of Indian meteorites : by Mr. C. A. Silberrad (p. 290).
 5. Meteoric stones from Suwahib, Arabia : by Mr. W. Campbell Smith (p. 334).
 6. An account of British mineral collectors, and dealers in the 17th, 18th, and 19th centuries (continued) : by Mr. Arthur Russell.
 7. Note on an occurrence of witherite at the Morrison North Pit, Stanley, Co. Durham : by Mr. Arthur Russell.
 8. Studies on the zeolites. Part IV. Ashcroftine (kalithomsonite of S. G. Gordon) : by Mr. M. H. Hey and Mr. F. A. Bannister (p. 305).
 9. The determination of rock constituents by semi-micro-methods : by Miss W. C. A. Guthrie and Dr. Christina C. Miller (communicated by Dr. F. Walker).
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