

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 13, 1931, at 4 p.m.*

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

Professor Gregori Aminoff, Dr. Arthur William Groves, Professor Arthur Pharaoh Honess, and Mr. Reginald Charles Wilson were provisionally elected Ordinary Members of the Society.

The resignation of Dr. W. E. Swinton was received and accepted. Prof. C. K. K. Pillai was removed from the List of Members in accordance with bye-law 7.

The deaths of Dr. J. W. Evans, Foreign Secretary, and of Dr. J. V. Elsdon were announced.

The Treasurer presented the audited accounts and balance-sheet for the year ending December 31, 1930, which were approved.

An invitation was received from the British Association to send a delegate to be present at the centenary meeting, and Sir Henry A. Miers was nominated.

Prof. Arthur Hutchinson, Past-President, was co-opted as Foreign Secretary to fill the vacancy created by the death of Dr. J. W. Evans.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 13, 1931, at 5.30 p.m.*

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

Twenty Members were present.

The elections of Prof. G. Aminoff, Dr. A. W. Groves, Prof. A. P. Honess, and Mr. R. C. Wilson as Ordinary Members of the Society were confirmed.

The following papers were read:—

1. A soda-margarite from the Postmasburg district, South Africa :
by Dr. F. C. Phillips (vol. 22, p. 482).

2. The distinction of analcime from leucite in rocks by X-ray methods: by Mr. F. A. Bannister (vol. 22, p. 469).

3. A chemical, optical, and X-ray study of nepheline and kaliophilite: by Mr. F. A. Bannister (vol. 22, p. 569).

4. An occurrence of grunerite at Pierrefitte, Hautes-Pyrénées, France: by Dr. H. V. Warren (vol. 21, p. 477).

Mr. F. N. Ashcroft exhibited a series of fine specimens of axinite from Piz Walatscha, Scopi massif, one of danburite from Val Cadlmo, and a large crystal of milarite from Calmot, Kreuzlithal, Tavetsch, Switzerland.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1931, at 4.30 p.m.

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

Reports were received from the Treasurer and the Editor.

An invitation was received from the Royal Institution of Great Britain to appoint a delegate to the celebrations of the centenary of Michael Faraday's discovery of electro-magnetic induction, and it was decided that the President (Sir John Flett) should act as the Society's representative. Prof. A. Hutchinson was asked to act as the Society's delegate at the celebrations of the jubilee of the British Museum (Natural History).

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1931, at 5.30 p.m.

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

Twenty-seven Members and seven Visitors were present.

The following papers were read:—

1. On a new method of detecting pyro-electricity: by Mr. A. J. P. Martin (vol. 22, p. 519).

2. The Mbosi meteoric iron, Tanganyika Territory: by Dr. D. R. Grantham and Mr. F. Oates (vol. 22, p. 487).

3. The Dhoon (Isle of Man) granite: a study in contamination: by Mr. S. R. Nockolds (vol. 22, p. 494).

4. Clouded feldspars as a result of thermal metamorphism: by Mr. A. G. MacGregor (vol. 22, p. 524).

5. The residual liquids of crystallizing magmas: by Mr. C. N. Fenner (communicated by the General Secretary; vol. 22, p. 539).

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., June 9, 1931, at 4.15 p.m.

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

Mr. Leason Heberling Adams and Dr. John Frank Schairer were provisionally elected Ordinary Members of the Society.

The deaths of Mr. J. Currie, Dr. A. R. Dwerryhouse, and Dr. T. V. Barker were announced.

The following changes in the list of Officers and Council were proposed. Prof. A. Hutchinson (co-opted January 13, 1931) to be Foreign Secretary. Ordinary Members of Council to be asked to stand for election: past members, Sir Harold B. Hartley, Dr. C. E. Tilley, or Mr. Arthur Russell; new members, Mr. F. A. Bannister, Prof. H. H. Read, or Dr. F. Walker, or Dr. A. K. Wells. The four senior Ordinary Members due to retire were: Colonel N. T. Belaiew, Mr. H. Collingridge, Mr. H. Dewey, and Prof. A. Holmes.

It was decided to hold the meetings in 1932 on the following dates: Tuesdays—January 19, March 15, June 7, and November 1.

The Treasurer proposed certain alterations in the bye-laws, and it was decided that he should circulate the proposals to the Council and that a special meeting of the Council should be held on September 22, 1931.

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., June 9, 1931, at 5.30 p.m.

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

Twenty-eight Members and five Visitors were present.

The elections of Mr. L. H. Adams and Dr. J. F. Schairer as Ordinary Members of the Society were confirmed.

The following papers were read:—

1. An occurrence of vanadiferous nodules on the coast of South Devon: by Mr. G. E. L. Carter (vol. 22, p. 609).

2. Studies on the zeolites. Part II. Thomsonite (including faroe-lite) and gonnardite: by Mr. M. H. Hey.

3. An account of British mineral collectors and dealers in the 17th, 18th, and 19th centuries (continued): by Mr. Arthur Russell.

4. Hoba (South-West Africa), the largest known meteorite: by Dr. L. J. Spencer (vol. 23, p. 1).

The following papers were taken as read:—

5. Twelfth list of new mineral names: by Dr. L. J. Spencer (vol. 22, p. 614).

6. On different habits of fluorite crystals: by Dr. J. Drugman.

Prof. H. L. Bowman exhibited exceptionally well-developed crystals of cassiterite from Portugal. Mr. F. N. Ashcroft exhibited a large specimen of very fine crystals of wolframite from Portugal.

SPECIAL COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., September 22, 1931, at 4 p.m.

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

The proposed changes in the bye-laws drafted by the Treasurer and circulated to the Members of the Council were discussed and some slight amendments made. It was decided to leave to the Treasurer the final drafting of the clause relating to composition fees, and to circulate the amended proposals to the Members of the Society a month before the Anniversary Meeting.

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., November 3, 1931, at 4 p.m.

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

Mr. Edward Percival Bottley, Dr. Alexander Murray Cockburn, Dr. Robert Hart, Professor Tei-ichi Ito, and Mr. John Herbert Thomas were provisionally elected Ordinary Members of the Society.

The resignation of Mr. A. Stanley Williams was received and accepted.

The deaths of Prof. F. J. Becke and Prof. F. W. Clarke, Honorary Members, were announced.

The proposed changes in the bye-laws which had been circulated to the Members of the Society were read through, and certain amendments to be moved at the Anniversary Meeting were noted.

Prof. C. G. Cullis and Dr. H. F. Harwood were appointed auditors of the accounts for the year ending December 31, 1931.

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

GENERAL (ANNIVERSARY) MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., November 3, 1931, at 5.30 p.m.*

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

Twenty-seven Members were present.

The President nominated Mr. R. Murray-Hughes and Mr. H. E. Buckley to act as scrutineers of the voting-papers for the election of Officers and Council. The scrutineers reported that sixty-four voting-papers had been returned to the Secretary, and that the list as nominated by the Council was approved, namely:—

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

Vice-Presidents. Dr. G. F. Herbert Smith, M.A., D.Sc., F.G.S.,
F.R.A.S.

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

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.

Dr. A. Brammall, Ph.D., D.Sc., F.G.S. G. M. Davies, M.Sc., F.G.S. Prof. W. G. Fearnside, M.A., F.G.S. Miss W. M. Porter, B.Sc. A. F. Hallimond, M.A., F.G.S. Dr. F. H. Hatch, O.B.E., Ph.D., F.G.S.	Sir Albert E. Kitson, C.M.G., C.B.E., F.G.S. Prof. W. L. Bragg, O.B.E., M.A., F.R.S. F. A. Bannister, M.A. Prof. H. H. Read, D.Sc., A.R.C.S., F.G.S. Arthur Russell, M.B.E. Prof. C. E. Tilley, Ph.D., B.Sc., A.I.C., F.G.S.
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The elections of Mr. E. P. Bottley, Dr. A. M. Cockburn, Dr. R. Hart, Prof. T. Ito, and Mr. J. H. Thomas as Ordinary Members of the Society were confirmed.

Certain minor amendments to the draft of the proposed changes in the bye-laws which had been circulated were proposed and carried. The President then proposed that the changes in the bye-laws be adopted. This was carried unanimously.

A vote of thanks to the Geological Society for the use of their rooms was proposed and carried.

The General Secretary then read the following:—

ANNUAL REPORT OF COUNCIL.

During the session 1930–31 four ordinary meetings have been held, by kind permission, in the apartments of the Geological Society of London, Burlington House, London, W. Nineteen papers have been read during the year. Four numbers of the *Journal of the Society* (nos. 131–134) have been issued. They contain eighteen papers occupying 246 pages with six plates, and 550 abstracts occupying 192 pages.

The balance-sheet for the year ending December 31, 1930, showed an excess of assets (exclusive of the Library and stock of publications) over liabilities of £2143 4s. 8d. The value of the stock invested in the name of the Trustees of the Society was on December 31, 1930, £1817 19s. 6d.

The Council regrets to announce the death of the following Honorary Members, Prof. F. J. Becke and Prof. F. W. Clarke, and of the following Ordinary Members, Dr. T. V. Barker, Mr. J. Currie, Dr. A. R. Dwerryhouse, Dr. J. V. Elsdon, and Dr. J. W. Evans. At the time of his death on November 16, 1930, Dr. Evans was Foreign Secretary of the Society, an office which he had held since 1924; he had previously served for six years as Treasurer, and nine years as an Ordinary Member of Council. Prof. A. Hutchinson was co-opted to fill the office of Foreign Secretary left vacant by Dr. Evans's death. During the year three Ordinary Members have resigned, and one has been removed from the list of members in accordance with bye-law 7. Nine new members have been elected, leaving the total membership on October 31, 1931, at 225, including nine Honorary Members.

The Society's Library has received during the year 161 parts of periodicals and 31 separate copies of papers. 37 volumes have been borrowed. The thanks of the Society are due to Mr. J. Broadhead and Prof. A. Hutchinson for volumes which they have presented to the Library.

The Council has had under consideration amendments to the Society's bye-laws, drawn up in the first place by the honorary Treasurer. These were discussed at a special meeting of the Council held on September 22, and printed copies were circulated to the Members a month before the Anniversary Meeting.

The President, Sir John S. Flett, represented the Society as a delegate at the celebrations of the centenary of Michael Faraday's discovery of electro-magnetic

induction and at the centenary celebrations of the British Association for the Advancement of Science; and the Foreign Secretary, Prof. A. Hutchinson, at the jubilee celebrations of the British Museum (Natural History).

On the motion of Dr. H. F. Harwood, seconded by Prof. P. G. H. Boswell, the report was adopted.

The following papers were then read :—

1. On crystals of brookite tabular parallel to the basal plane : by Dr. F. C. Phillips.

2. Scorodite from Kiura mine, Bungo, Kiushiu, Japan : by Prof. T. Ito and Mr. T. Shiga.

3. A new meteoric stone from Suwahib, Arabia : by Mr. W. Campbell Smith (vol. 23, p. 43).

4. A new siderolite from Bencubbin, Western Australia : by Dr. E. S. Simpson and Mr. D. G. Murray (vol. 23, p. 33).

5. The meteorite craters at Henbury, Central Australia : by Mr. A. R. Alderman (communicated by Dr. L. J. Spencer ; vol. 23, p. 19).

The following paper was taken as read :—

6. Notes on brown hornblende and biotite from Shabō-zan, of the Daiton volcanoes, Taiwan, Japan : by Prof. Takeshi Ichimura (communicated by Prof. P. G. H. Boswell ; vol. 22, p. 561).

Mr. Arthur Russell exhibited a fine nugget of gold from County Wicklow, which he had recently acquired.

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

	GENERAL PUR-	
RECEIPTS.	£ s. d.	£ s. d.
By Balances brought forward from 1930—		
1. At Bankers:		
(a) Current Account	12 17 11	
(b) Deposit Account	165 0 0	
2. In Office	0 9 0	
	178 6 11	
Entrance Fees		12 12 0
Annual Subscriptions—		
1. Current year	161 14 0	
2. Arrears	8 8 0	
3. Advance	7 7 0	
	177 9 0	
Composition Fees		31 10 0
Sale of Publications—		
1. By Publishers, April 1, 1930–March 31, 1931. Subscription Payments £217 0s. 0d., and other sales £102 18s. 0d., less trade discount and commission £88 11s. 0d., and distribu- tion charges £12 0s. 7d.	219 6 5	
2. By Custodian of Stock, 1931. £42 17s. 0d., less trade discount £0 1s. 4d. and distribu- tion charges £1 9s. 4d.	41 6 4	
	260 12 9	
Advertisement Fees, £45 3s. 0d., less commission £8 19s. 11d.		36 3 1
Interest on Investments as received—		
1. £1615 5% War Loan 1929–47 Inscribed Stock	79 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	
	87 4 0	
Deposit Interest		7 3 3
Small Receipts		0 0 4

£791 1 4

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1931

POSES ACCOUNT.

PAYMENTS.		£	s.	d.	£	s.	d.		
To Printing and distributing the Mineralogical Magazine Nos. 132-135 inclusive (Oxford University Press)—									
1. Printing		342	16	6					
2. Illustrations		27	4	0					
3. Authors' Separate Copies		24	4	0					
4. Distribution Charges		14	8	0					
5. Postal wrappers (renewal of stock)		2	13	6					
						411	6	0	
Printing and distributing notices of Meetings and other annual miscellaneous printing									
						19	6	1	
Miscellaneous Printing, &c. (not annual)—									
1. Memorandum <i>re</i> Bye-laws (typing)		0	15	6					
2. Amendments to Bye-laws, draft proposals (printing)		3	1	0					
						3	16	6	
Expenses at Meetings (1931)—									
1. Operator of lantern		2	2	0					
2. Porter		1	0	0					
3. Tea		3	3	6					
4. Liquid air for demonstration		0	9	6					
							6	15	0
Care of Stock of Publications—									
Annual fee, 1931, J. Mugford						1	1	0	
Purchase of Deed Box for Archives						5	11	6	
Editor's Honorarium, 1931						50	0	0	
Postage—									
1. Hon. Secretary		1	4	2					
2. Editor		1	0	4					
3. Hon. Treasurer (not charged)				—					
							2	4	6
Bank charges and other small items									
						0	12	3	
Investments, purchase of £35 5% War Loan 1929-47									
Inscribed Stock, commission and stamp						34	13	0	
Transferred to Library Fund Account						5	0	0	
Balance, December 31, 1931—									
1. At Bankers:									
(a) Current Account		25	8	4					
(b) Deposit Account		225	0	0					
2. In Office		0	7	2					
							250	15	6
						£791	1	4	

Examined and compared with vouchers and found correct.

C. GILBERT CULLIS }
HENRY F. HARWOOD } Auditors.

January 18, 1932.

F. N. ASHCROFT, Hon. Treasurer.

		LIBRARY FUND	
RECEIPTS.		£	s. d.
By Balances brought forward from 1930—			
1. At Bankers		1	1 9
2. In Office		0	0 9
Transferred from General Purposes Account			1 2 6
			5 0 0
			£6 2 6
			£6 2 6

BALANCE

		DECEMBER	
LIABILITIES.		£	s. d.
By Cash in hand as per Temporary Suspense Account (not published)			1 7 8
Sundry Creditors			0 17 6
Annual Subscriptions in advance—			
Received in 1931 for 1932			7 7 0

Excess of Assets over Liabilities	1133 17 8
	£1143 9 10
	£1143 9 10

ACCOUNT.

	PAYMENTS.	£ s. d.	£ s. d.
To Librarian's Honorarium, 1931			5 0 0
Balance, December 31, 1931—			
1. At Bankers (current account)		1 1 9	
2. In Office		0 0 9	
		1 2 6	
			£6 2 6

Examined and compared with vouchers and found correct.

C. GILBERT CULLIS }
HENRY F. HARWOOD } Auditors.

January 18, 1932.

F. N. ASHCROFT, Hon. Treasurer.

SHEET

31, 1931¹.

	ASSETS.	£ s. d.	£ s. d.
To Balances—			
I. General Purposes Account:			
1. At Bankers:			
(a) Current Account		25 8 4	
(b) Deposit Account		225 0 0	
2. In Office		0 7 2	
		250 15 6	
II. Library Fund Account—			
1. At Bankers: Current Account		1 1 9	
2. In Office		0 0 9	
		1 2 6	
III. Temporary Suspense Account—			
At Bankers: Current Account			1 7 8
Sale of Publications—			
By Publishers, April 1 to Dec. 31, 1931			79 10 10
Advertisement Fees			21 17 3
Investments at Broker's Valuation—			
1. £640 5% War Loan 1929-47 Inscribed Stock at 95 $\frac{3}{4}$		612 16 0 ¹	
2. £105 4% Consolidated Loan 1957 Inscribed Stock at 81 $\frac{1}{2}$		85 14 1	
3. £100 4% Funding Loan 1960-90 Inscribed Stock at 84		84 0 0	
		782 10 1	
Arrears of Annual Subscriptions, valued at			6 6 0
			£1143 9 10

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, 1932.

F. N. ASHCROFT, Hon. Treasurer.

¹ Being £1615 5% War Loan less £975 5% War Loan allocated to the Composition Fees Account (new).

COMPOSITION FEES ACCOUNT.¹

	£ s. d.		£ s. d.
By 92 Composition Fees received, 1876-December 31, 1931 (61 at £10 10s. and 31 at £15 15s.)	1128 15 0	To £975 5% War Loan 1929-47 Inscribed Stock allocated to the account. (Actual cost £1129 14s. 7d. Value December 31, 1931, at Broker's valuation, 95 ³ / ₄ , £933 11s. 3d.)	1128 15 0
	£1128 15 0		£1128 15 0

January 18, 1932.

F. N. ASHCROFT, Hon. Treasurer.

Having examined the method by which the above statement has been reached we are of opinion that the amounts here allocated to the Composition Fees Account are substantially correct. We have, however, not been able to verify details.

C. GILBERT CULLIS }
HENRY F. HARWOOD } Auditors.

¹ This account was created on December 31, 1931. The Council has been advised that as the Society adopted at its foundation the Bye-law 'Composition Fees shall be treated as Capital . . .', and as the phrase mentioned has been retained in the Bye-laws ever since, the moneys received as Composition Fees should be treated as Trust Moneys, and that they should be separated in the Accounts from the other Capital Moneys of the Society. The total sum received as Composition Fees up to December 31, 1931, amounts to £1128 15s. 0d., and the investments made up to that date have cost (including all charges such as Stamps and Fees and expenses incidental to the conversions of Stocks formerly held, but not costs incidental to changes of Trustees) £2049 7s. 8d. Thus 55.08% of the sum invested and of the investments purchased represents Composition Fees received up to December 31, 1931. To avoid fractions in the nominal amount of the Stock allocated to the account, it has been credited with £975 5% War Loan 1929-47, Inscribed Stock, the cost of which works out at £1129 14s. 7d. against the £1128 15s. 0d. required.