

PROCEEDINGS  
OF THE  
MINERALOGICAL SOCIETY

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EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., January 25, 1934, at 4.15 p.m.*

Sir THOMAS H. HOLLAND, F.R.S., President, in the Chair.

The death on January 7 of Dr. H. S. Washington was announced, and the Foreign Secretary was asked to send a letter of condolence to the Geophysical Laboratory, Carnegie Institution of Washington.

The Treasurer reported on the financial position of the Society and presented the audited accounts and Balance Sheet for the year 1933, which were adopted (vol. 23, pp. lxii-lxv). He reported that as Dr. W. R. Jones had not been able to attend the audit, he had, with the President's consent, asked Dr. L. Hawkes to act in place of Dr. Jones. This was approved.

The names of three members one year in arrear with their subscriptions, and two members two years in arrear, were reported.

It was decided to change the dates of the meetings for June and November from June 14 and November 8 to June 7 and November 1 respectively. It was further decided to arrange the dates of meetings for 1935 at the November Council Meeting instead of in June as previously done.

Letters were received from the two recently elected Honorary Members, Prof. V. M. Goldschmidt and Prof. P. Niggli.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., January 25, 1934, at 5.30 p.m.*

Sir THOMAS H. HOLLAND, F.R.S., President, in the Chair.

Twenty-seven Members and three Visitors were present.

Mr. A. T. J. Dollar exhibited specimens of bent and twisted quartz crystals from Lundy Island.

Prof. C. E. Tilley exhibited specimens and microscope slides of the new mineral hydrocalumite from Scawt Hill, Co. Antrim (vol. 23, p. 607).

The following papers were read and discussed :—

1. Zoning in plagioclase felspar : by Dr. James Phemister (read by Dr. T. C. Phemister) (vol. 23, p. 541).
2. On zoned associations of antigorite, talc, actinolite, chlorite, and biotite in Unst, Shetland Islands : by Prof. H. H. Read (vol. 23, p. 519).
3. Studies on the zeolites. Part VII. 'Clinoptilolite', a silica-rich variety of heulandite : by Mr. M. H. Hey and Mr. F. A. Bannister (vol. 23, p. 556).
4. Notes on cordierite in the Dartmoor granite : by Mr. B. Rama Rao (communicated by Dr. A. Brammall).

#### EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., March 15, 1934, at 4.30 p.m.*

Mr. ARTHUR RUSSELL, Vice-President, in the Chair.

The deaths were reported of Mr. William Barlow, past-President, on February 28, and of Mr. William Greswolde Williams Sandison on January 18.

Dr. John Dugdale Holt Wiseman was provisionally elected an Ordinary Member of the Society.

The filling of vacancies in the list of Honorary Members was discussed and it was decided to consider this again at the June Meeting.

#### GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., March 15, 1934, at 5.30 p.m.*

Mr. ARTHUR RUSSELL, Vice-President, in the Chair.

Thirty-two Members and five Visitors were present.

The election of Dr. J. D. H. Wiseman as an Ordinary Member of the Society was confirmed.

The following papers were then read :—

1. Baryte crystals from the Manvers Main colliery, Wath-on-Deerne, near Rotherham, Yorkshire : by Mr. Arthur Russell.
2. The conditions for the crystallization of hornblende in igneous rocks : by Dr. W. Q. Kennedy.
3. An account of British mineral collectors and dealers in the 17th, 18th, and 19th centuries (continued) : by Mr. Arthur Russell.

4. On the advantages of the face-adjustment for two-circle goniometry : by Mr. M. H. Hey (vol. 23, p. 560).

The following papers were taken as read :—

1. An improved method of crystallographic computations : by Mr. M. H. Hey.

2. On face- and zone-symbols referred to hexagonal axes : a correction : by Mr. M. H. Hey.

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#### EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House, London, W., June 7, 1934, at 4.15 p.m.*

SIR THOMAS H. HOLLAND, F.R.S., President, in the Chair.

The death of Mr. Robert Bell on April 12 was announced. Prof. William Noel Benson was provisionally elected an Ordinary Member of the Society.

The list of Officers and Members of Council was considered, and it was decided that the following four Ordinary Members of Council should retire : Prof. C. E. Tilley, Mr. F. A. Bannister, Dr. W. R. Jones, and Dr. F. C. Phillips ; and in their place the following were proposed for submission to the Society : previous Members of Council—Prof. A. Brammall and Dr. H. H. Thomas ; new Members—Mr. C. W. Mathews and Dr. T. C. Phemister.

The list of Honorary Members was considered. It was decided to fill one vacancy, and as a result of the ballot Prof. A. E. Fersman was elected subject to confirmation by the General Meeting.

A letter was received from the Edinburgh Geological Society asking for a representative of the Society to attend the centenary celebrations in Edinburgh on September 3 and 4. The General Secretary was appointed as the Mineralogical Society's representative.

#### GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House, London, W., June 7, 1934, at 5.30 p.m.*

SIR THOMAS H. HOLLAND, F.R.S., President, in the Chair.

Twenty-nine Members and one Visitor were present.

The election of Prof W. N. Benson as an Ordinary Member of the Society was confirmed.

On behalf of Mr. E. J. Wayland, Dr. L. J. Spencer exhibited crystals of alluvial gold from the Ankole district, Uganda.

The following papers were read:—

1. The form relations of the lead oxychlorides, laurionite, paralaurionite, and fiedlerite: by Prof. Charles Palache (read by Dr. L. J. Spencer) (vol. 23, p. 573).
2. The crystal-structure and optical properties of matlockite (PbFCl): by Mr. F. A. Bannister (vol. 23, p. 587).
3. Berthierite from Kisbánya, Carpathians: by Dr. V. Zsivny and Dr. L. Zombory (communicated by Dr. L. J. Spencer) (vol. 23, p. 566).
4. Beryllium minerals (euclase and phenakite) from Africa: by Dr. L. J. Spencer (vol. 23, p. 616).
5. Lusakite, a cobalt-bearing silicate from Northern Rhodesia: by Mr. A. C. Skerl and Mr. F. A. Bannister (vol. 23, p. 598).
6. The determination of small amounts of copper in rocks: by Dr. A. W. Groves (vol. 24, p. 35).
7. Thirteenth list of new mineral names: by Dr. L. J. Spencer (vol. 23, p. 624).
8. A new meteoric stone from Silverton, New South Wales: by L. J. Spencer (vol. 23, p. 569).
9. Studies on the zeolites. Part VIII. A theory of the vapour-pressure of zeolites: by Mr. M. H. Hey.

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#### EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., November 1, 1934, at 4 p.m.*

Sir THOMAS H. HOLLAND, F.R.S., President, in the Chair.

The resignation of Dr. B. H. Knight was received and accepted. Dr. L. Hawkes and Dr. W. R. Jones were nominated as auditors.

The draft Annual Report was read and after amendment approved.

A proposal to print brief abstracts of papers to be read at the meetings was discussed and it was decided to circulate such abstracts with the notices calling each meeting. Various other means of making the meetings of more general interest to members were considered and it was decided to arrange exhibits of specimens in addition to those shown in illustration of papers.

## GENERAL (ANNIVERSARY) MEETING.

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., November 1, 1934, at 5.30 p.m.*

Sir THOMAS H. HOLLAND, F.R.S., President, in the Chair.

Thirty-two Members and three Visitors were present.

The chairman nominated Mr. A. R. Alderman and Dr. J. D. H. Wiseman to act as scrutineers of the voting-papers for the election of Officers and Council.

The election of Prof. Aleksandr Evgenievich Fersman of Moscow as an Ordinary Member was confirmed.

The General Secretary then read the following:—

## ANNUAL REPORT OF COUNCIL FOR 1934.

During the session 1933–34 four ordinary meetings have been held. Twenty-three papers have been read and four were taken as read. Four numbers (143–146) of the Mineralogical Magazine have been issued containing twenty-one papers, occupying 220 pages and illustrated with 71 text-figures and 4 plates. These numbers also include 638 abstracts occupying 192 pages.

The Council regrets to announce the death of a Honorary Member, Dr. Henry Stephens Washington; a Past-President, Mr. William Barlow; and two Ordinary Members, Mr. Robert Bell and Mr. William Greswolde Williams Sandison.

Eight Ordinary Members have been elected, and Prof. Victor Moritz Goldschmidt and Prof. Paul Niggli have been elected Honorary Members, bringing the total membership on October 31, 1934, to 233 (including eight Honorary Members).

The accounts for the year ending Saturday, December 30, 1933, showed an excess of assets over liabilities of £1,151 12s. 11d., against £1,146 10s. 10d. on December 31, 1932. These assets do not include the Library and unsold stock of publications, nor the securities and cash allocated to the Composition Fees account. The value of securities standing in the names of the Trustees on December 30, 1933 was: General Reserve £874 14s. 3d., Composition Fees account £987 3s. 9d., against £852 6s. 6d. and £962 16s. 3d. respectively on December 31, 1932. One Composition Fee had been received during the year, but it had not been invested when the accounts were closed.

The Society's Library has received during the year 144 parts of periodicals and 42 separate copies of papers. 22 volumes have been borrowed during the year.

The Nomenclature Committee, after its meeting on November 9, 1933, had forwarded an agreed report to the Nomenclature Committee of the Mineralogical Society of America, but no action had yet been taken on this report in America.

A memorial plaque to William Hyde Wollaston, to which this Society had contributed, was placed on Wollaston's house at 14 Buckingham Street, London, W. 1, and was unveiled on July the fourth by Sir F. Gowland Hopkins, President

of the Royal Society. The unveiling ceremony was attended by the President and General Secretary and by several other members of the Society.

The General Secretary was the official delegate of the Society at the celebration of the centenary of the Edinburgh Geological Society on September 3 and 4.

It was proposed by Mr. M. H. Hey and seconded by Dr. A. F. Hallimond that the report be adopted. This was carried unanimously.

The scrutineers reported that 44 voting papers had been returned to the General Secretary and that the list nominated by the Council had been approved. The President declared these Officers and Ordinary Members of Council elected for the ensuing year:—

*President.* Sir Thomas H. Holland, K.C.S.I., K.C.I.E., D.Sc.,  
F.R.S.

*Vice-Presidents.* Arthur Russell, M.B.E.  
Sir William H. Bragg, O.M., K.B.E., M.A., D.Sc.,  
F.R.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, C.B.E., M.A., Sc.D., F.R.S.

*Ordinary Members of Council.*

Prof. P. G. H. Boswell, O.B.E., D.Sc., A.R.C.S., F.R.S.	L. R. Wager, B.A., B.Sc., F.G.S.
Prof. H. L. Bowman, M.A., D.Sc., F.G.S.	Dr. A. K. Wells, D.Sc., F.G.S.
Dr. L. Hawkes, D.Sc., F.G.S.	Prof. A. Brammall, Ph.D., D.Sc., F.G.S.
J. B. Scrivenor, I.S.O., M.A., F.G.S.	C. W. Mathews, F.G.S.
T. Crook, A.R.C.S.I., F.G.S.	Dr. T. C. Phemister, Sc.M., Ph.D., D.Sc., F.G.S.
Dr. W. F. P. McLintock, D.Sc., F.G.S.	Dr. H. H. Thomas, M.A., Sc.D., F.R.S.

A vote of thanks to Prof. C. E. Tilley, Dr. W. R. Jones, Dr. F. C. Phillips, and Mr. F. A. Bannister, retiring Members of Council, was proposed by Dr. G. F. Herbert Smith and seconded by Sir Albert E. Kitson, and was carried unanimously.

Mr. Arthur Russell proposed a vote of thanks to the Geological Society of London for allowing the Society the free use of their rooms. This was seconded by Mr. F. A. Bannister and carried unanimously.

The following papers were then read:—

1. Murnpeowie (South Australia), a granular type of meteoric iron: by Dr. L. J. Spencer (vol. 24, p. 13).
2. Colour reactions in the micro-chemical determination of minerals: by Mr. J. Adam Watson (vol. 24, p. 21).
3. Almandine from Botallack, Cornwall: by Mr. A. R. Alderman (vol. 24, p. 42).
4. The meteoric stone seen to fall in the Mangwendi native reserve, Southern Rhodesia, on March 7, 1934: by B. Lightfoot, A. M. Macgregor, and E. Golding (read by Mr. H. B. Maufe) (vol. 24, p. 1).
5. The crystal-structure of the bismuth oxyhalides: by Mr. F. A. Bannister.

## MINERALOGICAL

## ABSTRACT OF RECEIPTS AND PAYMENTS

	RECEIPTS.		GENERAL PUR-	
	£	s. d.	£	s. d.
By Balances brought forward from 1933—				
1. At Bankers:				
(a) Current Account . . . . .	16	14 3		
(b) Deposit Account . . . . .	220	0 0		
2. In Office . . . . .	0	13 1		
		<hr/>	237	7 4
Entrance Fees . . . . .			4	4 0
Annual Subscriptions—				
1. Current year . . . . .	176	8 9		
2. Arrears . . . . .	11	11 0		
3. Advance . . . . .	2	2 0		
		<hr/>	190	1 9
Sale of Publications—				
1. By Publishers, April 1, 1933–March 31, 1934. Sales at subscription rate £257 <i>0s. 0d.</i> and other sales £12 <i>11s. 0d.</i> , less trade discount and commission £68 <i>8s. 8d.</i> , and distribu- tion charges £12 <i>13s. 10d.</i> . . . . .	188	8 6		
2. By Custodian of Stock, 1934. £34 <i>3s. 0d.</i> , less distribution charges £1 <i>5s. 9d.</i> and cost of back numbers purchased £1 <i>2s. 11d.</i> . . . . .	31	14 4		
		<hr/>	220	2 10
Advertisement Fees, £32 <i>9s. 9d.</i> , less commission £6 <i>9s. 11d.</i> . . . . .			25	19 10
Interest on Investments as received—				
1. £640 $3\frac{1}{2}\%$ War Loan 1952 and after, Inscribed Stock . . . . .	22	8 0		
2. £105 $4\%$ Consolidated Loan 1957, Inscribed Stock . . . . .	4	4 0		
3. £100 $4\%$ Funding Loan 1960–90, Inscribed Stock . . . . .	4	0 0		
		<hr/>	30	12 0
Deposit Interest . . . . .			2	1 9
Small Receipts . . . . .			0	0 8
Transfers from other accounts—				
From Composition Fees Account, being In- terest on Investments . . . . .			34	5 6

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£744 15 8

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1934

POSES ACCOUNT.

PAYMENTS.	£ s. d.	£ s. d.
To Printing and distributing the Mineralogical Magazine Nos. 144-147 inclusive (Oxford University Press)—		
1. Printing . . . . .	328 11 6	
2. Illustrations . . . . .	28 1 0	
3. Authors' Separate Copies . . . . .	24 7 0	
4. Distribution Charges . . . . .	14 5 0	
	395 4 6	
Printing and distributing Notices of Meetings and other annual miscellaneous printing . . . . .		16 8 0
Miscellaneous Printing, &c. (not annual)—		
1. Receipt Books (renewal of stock) . . . . .	2 14 6	
2. Notices <i>re</i> the Jubilee Meeting of the Geological Society of Switzerland . . . . .	0 18 6	
	3 13 0	
Expenses at Meetings—		
1. Hire of Lantern . . . . .	1 11 0	
2. Operator of lantern . . . . .	1 11 6	
3. Porter . . . . .	1 0 0	
4. Tea . . . . .	2 15 6	
	6 18 0	
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 . . . . .	1 0 8	
2. Editor . . . . .	0 13 6	
3. Librarian . . . . .	0 1 1	
4. Hon. Treasurer (not charged) . . . . .	0 0 0	
	1 15 3	
Bank charges and other small items . . . . .		0 6 10
Investments, purchase of £50 8s. 0d. Metropolitan Water Board 'B' Stock Inscribed . . . . .		50 0 8
Balance, December 31, 1934—		
1. At Bankers:		
(a) Current Account . . . . .	14 1 0	
(b) Deposit Account . . . . .	200 0 0	
2. In Office . . . . .	0 7 5	
	214 8 5	
		£744 15 8

Examined and compared with vouchers and found correct.

L. HAWKES  
W. R. JONES } Auditors.  
F. N. ASHCROFT, Hon. Treasurer.

January 11, 1935.

BALANCE

	DECEMBER	
LIABILITIES.	£ s. d.	£ s. d.
To Annual Subscriptions received in advance—		
1. Received in 1933 for 1935 . . . . .	1 1 0	
2. Received in 1934 for 1935 . . . . .	2 2 0	
	2 3 0	3 3 0

Excess of Assets over Liabilities . . . . .	1247 10 4
	£1250 13 4

COMPOSITION FEES ACCOUNT

	RECEIPTS.	£ s. d.	£ s. d.
By Composition Fees received as per last Account .		1139 5 0	
Composition Fees received during year . . . . .		10 10 0	
		1149 15 0	
Income—			
Interest on Investments as received:			
1. £975 3½% War Loan 1952 and after, In-			
scribed Stock . . . . .		34 2 6	
2. £10 4s. 8d. 3% Conversion Loan 1948–53,			
Inscribed Stock . . . . .		0 3 0	
		34 5 6	
			£1184 0 6

SHEET

31, 1934.

ASSETS.		£ s. d.	£ s. d.
By Balances—			
General Purposes Account :			
1. At Bankers :			
(a) Current Account . . . . .		14 1 0	
(b) Deposit Account . . . . .		200 0 0	
2. In Office . . . . .		0 7 5	
		214 8 5	
Sundry Debtors—			
1. Publishers (Oxford University Press):			
(a) For sales of Publications, April 1–Dec. 31, 1934 . . . . .		30 15 9	
(b) For advertisement Fees, April 1–Dec. 31, 1934 . . . . .		13 5 6	
2. For other sales . . . . .		0 1 0	
		44 2 3	
Investments at Broker's Valuation—			
1. £640 3½ % War Loan 1952 and after, Inscribed Stock at 108½ % . . . . .		696 0 0	
2. £105 4 % Consolidated Loan 1957, Inscribed Stock at 117¼ % ex div. . . . .		123 12 9	
3. £100 4 % Funding Loan 1960–90, Inscribed Stock at 120½ % . . . . .		120 10 0	
4. £50 8s. 0d. 3 % Metropolitan Water Board ' B ' Stock, Inscribed, at 99 % . . . . .		49 17 11	
		990 0 8	
Annual Subscriptions in Arrear, £3 6s. 0d., estimated to realize . . . . .			2 2 0
		£1250 13 4	

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

January 17, 1935.

F. N. ASHCROFT, Hon. Treasurer.

YEAR ENDING DECEMBER 31, 1934.

PAYMENTS.		£ s. d.	£ s. d.
To Investments as per last Account—			
£975 3½ % War Loan 1952 and after, Inscribed Stock valued by Brokers at £1060 6s. 3d. (108½ %) at cost . . . . .		1128 15 0	
Investments made during year—			
£10 4s. 8d. 3 % Conversion Loan 1948–53, Inscribed Stock, valued by Brokers at £10 16s. 5d. (105¾ %), at cost . . . . .		10 10 0	
£10 12s. 0d. 3 % Metropolitan Water Board ' B ' Stock, Inscribed, valued by Brokers at £10 9s. 11d. (99 %), at cost . . . . .		10 10 0	
		1149 15 0	
Income transferred to General Purposes Account . . . . .			34 5 6
		£1184 0 6	

Examined and compared with Vouchers and found correct.

L. HAWKES }  
W. R. JONES } Auditors.

January 11, 1935.

F. N. ASHCROFT, Hon. Treasurer.