

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 20, 1925, at 4.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

The deaths of Sir Archibald Geikie, one of the original members of the Society; Prof. G. D. Liveing, one of the members of the Crystallogical Society; and Mr. R. C. Webb were announced.

Mr. Henry Dewey, Prof. William Arthur Tarr, and Mr. Sergei Ivanovich Tomkeieff were provisionally elected Ordinary Members of the Society.

The balance-sheet and abstract of receipts and payments for the year ending December 31, 1924, were submitted and were approved subject to audit by Dr. Harwood and Mr. De Castro, who were appointed auditors. It was resolved that in future the auditors be appointed at the November meeting.

The Treasurer reported to the Council certain members whose subscriptions were in arrears; and he was instructed to take action in accordance with bye-law 7.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., January 20, 1925, at 5.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

Eighteen Members and four Visitors were present.

The elections of Messrs. H. Dewey, W. A. Tarr, and S. I. Tomkeieff were confirmed.

The following papers were read:—

1. An X-ray examination of calcium formate: by Miss K. Yardley (vol. 20, p. 296).

2. Afwillite, a new hydrous calcium silicate, from Dutoitspan mine, Kimberley, South Africa: by Mr. John Parry and Dr. F. E. Wright (vol. 20, p. 277).

3. On tyuyamunite from the Tyuya-Muyun radium mine, Fergana: by Prof. P. N. Chirvinsky (vol. 20, p. 287).

4. International agreement in mineralogical and crystallographical nomenclature: by Dr. L. J. Spencer (vol. 20, p. 353).

EXCERPT MINUTES OF COUNCIL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1925, at 4.30 p.m.

Prof. W. W. WATTS, F.R.S., President, in the Chair.

The death of Prof. G. Murgoci, an Ordinary Member, was announced.

Mr. Alpheus Fuller Williams and Mr. Ivan Sidney Double were provisionally elected Ordinary Members of the Society.

It was decided to publish an index to vol. 2 of the Abstracts for the three years 1923-5 in the same form as the index to vol. 1, with a similar topographical index; and also an index to vols. 11-20 of the Journal for the thirty-one years 1895-1925.

The future of the Library of the Society was discussed, and a committee consisting of the Librarian (Prof. Lewis), Dr. Hutchinson, Dr. Prior, Mr. Campbell Smith, and Dr. Spencer was appointed to consider the matter and to report.

GENERAL MEETING.

Held in the Apartments of the Geological Society, Burlington House, London, W., March 17, 1925, at 5.30 p.m.

Prof. W. W. WATTS, F.R.S., President, in the Chair.

Eighteen Members and seven Visitors were present.

The elections of Mr. A. F. Williams and Mr. I. S. Double were confirmed.

A demonstration, illustrated by models, was given by Sir William Bragg on the twinning of quartz crystals.

The following papers were read:—

1. The structure of aragonite: by Mr. S. Tomkeieff (vol. 20, p. 408).
2. The structure of pentaerythritol tetranitrate: by Dr. I. E. Knaggs (vol. 20, p. 346).

8. Potash-oligoclase from Mt. Erebus, Antarctic, and anorthoclase from Mt. Kenya, East Africa: by Mr. E. D. Mountain (vol. 20, p. 331).

4. Further notes on the association of lime with other oxides of the RO-type in minerals: by Dr. A. Brammall.

5. Crystallographic data of some new organic compounds: by Mr. Gilbert Greenwood (vol. 20, p. 393).

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., June 16, 1925, at 4.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Dr. Robert Campbell, Dr. Hardy Vincent Ellsworth, Mr. Aubrey Evelyn Horn, Mr. Robert Angus Alister Johnston, Dr. James Malcolm Maclaren, Dr. Patrick Marshall, Mr. William Elgin Swinton, and Prof. Ellis Thomson.

The following changes in the list of Officers and Council were approved for recommendation to the Members of the Society: Vice-President—Sir Thomas Holland in place of Dr. H. H. Thomas; Ordinary Members of Council—Prof. P. G. H. Boswell, Mr. T. Crook, Mr. L. Hawkes, and Dr. H. H. Thomas, in place of the four retiring Members of Council, Dr. Brammall, Mr. De Castro, Mr. Edge, and Sir Thomas Holland.

It was decided to hold four meetings next year on the following dates: Tuesdays, January 19, March 16, June 15, and November 2.

The Library Committee reported that a preliminary sorting had been made of books and periodicals to be retained and those to be discarded. It was proposed to keep all of purely mineralogical interest including separate copies of mineralogical papers, and also for the present all periodicals which are still being received. Of those to be discarded the Geological Society should be allowed the first selection of any which might be useful for completing sets, &c., and afterwards the Sedgwick Museum and other Libraries in Cambridge. The residue should be sold to booksellers who were to be invited to make offers for it, and the proceeds were to be devoted to the upkeep of the Library. The Committee was given power to act in accordance with these proposals.

GENERAL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., June 16, 1925, at 5.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

Twenty-one Members and four Visitors were present.

The elections as Ordinary Members of the Society of Messrs. Campbell, Ellsworth, Horn, Johnston, Maclaren, Marshall, Swinton, and Thomson were confirmed.

The dates of meeting for 1926 were announced.

The following papers were read :—

1. The use of the stereographic protractor for the interpretation of Laue crystal-photographs: by Dr. A. Hutchinson (p. 10).

2. The use of alinement charts in crystal-optics: by Dr. A. Hutchinson (vol. 20, p. 441).

3. The crystal-structures of the sulphides of mercury: by Messrs. H. E. Buckley and W. S. Vernon (vol. 20, p. 382).

4. Albite and other authigenic minerals in limestone from Bengal: by Dr. Edmondson Spencer (vol. 20, p. 365).

5. Chlorophaeite in the dolerites (tholeiites) of Dalmahoy and Kaimes Hills, Edinburgh: by Dr. R. Campbell and Mr. J. W. Lunn (vol. 20, p. 435).

6. Tenth list of new mineral names; with an index of authors: by Dr. L. J. Spencer (vol. 20, p. 444).

Specimens and models were exhibited by the authors in illustration of their papers.

EXCERPT MINUTES OF COUNCIL MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., November 3, 1925, at 4.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

Dr. Arthur Richard Dwerryhouse, Mr. Arthur Douglas Lumb, Dr. Edmondson Spencer, Prof. Aladár Vendl, and Prof. Miklós Vendl were provisionally elected Ordinary Members of the Society.

Mr. J. P. De Castro and Mr. A. F. Hallimond were appointed Auditors of the accounts for the year ending December 31, 1925.

A letter from the Royal Society was read announcing the grant of £100 from the Government Publication Fund towards the cost of publication of Mineralogical Abstracts.

The Editor reported that the December number of the Journal was in hand and would consist of indexes to vol. 20 of the Magazine and vol. 2 of the Abstracts, for which some 15,000 slips had been written.

The Library Committee presented a detailed report with lists of periodicals, &c. that had been disposed of, these apparently containing no matter of mineralogical or crystallographical interest. Certain presentations of small broken sets had been made on behalf of the Society to the libraries of the Geological Society of London, the Sedgwick Museum of Geology at Cambridge, the Cambridge School of Geography, and the Cambridge Philosophical Society. The remainder disposed of realized a sum of £55. The next task of the Committee will be to decide how best this fund may be employed for completing gaps in the set of periodicals retained and in binding some of the more useful and important. [The Society's Library has been housed in the Mineralogical Museum at Cambridge since 1890.]

Dr. A. Hutchinson was appointed Librarian in place of Prof. Lewis.

A Committee consisting of the President, Treasurer, General Secretary, Foreign Secretary, Editor, Dr. Hutchinson, Sir Henry Miers, Mr. Campbell Smith, Dr. Herbert Smith, and Dr. Thomas was appointed to consider how the Jubilee of the Society next year should be celebrated.

GENERAL (ANNIVERSARY) MEETING.

*Held in the Apartments of the Geological Society, Burlington House,
London, W., November 3, 1925, at 5.30 p.m.*

Prof. W. W. WATTS, F.R.S., President, in the Chair.

Twenty-one Members and seven Visitors were present.

The Chairman nominated Messrs. Garnett and Grantham to act as scrutineers of the voting-papers for the election of Officers and Council. The scrutineers reported that thirty-seven voting-papers had been returned to the Secretary, and that the list as nominated by the Council was approved, namely:—

President. Prof. W. W. Watts, Sc.D., LL.D., F.R.S.

Vice-Presidents. Prof. Harold Hilton, M.A., D.Sc.

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

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

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

Foreign Secretary. J. W. Evans, C.B.E., D.Sc., LL.B., F.R.S.

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

Ordinary Members of Council.

Arthur Russell, M.B.E.	W. Campbell Smith, M.C., M.A., F.G.S.
H. Gladstone Smith, B.Sc., F.G.S.	F.G.S.
T. V. Barker, M.A., B.Sc., F.C.S.	C. E. Tilley, Ph.D., A.I.C., F.G.S.
Sir William H. Bragg, K.B.E., M.A., D.Sc., F.R.S.	Prof. P. G. H. Boswell, O.B.E. D.Sc., F.G.S.
A. F. Hallimond, M.A., F.G.S.	T. Crook, F.G.S.
J. A. Howe, O.B.E., B.Sc., F.G.S.	L. Hawkes, M.Sc., F.G.S.
	H. H. Thomas, M.A., Sc.D., F.G.S.

The elections as Ordinary Members of the Society of Dr. A. R. Dwerryhouse, Mr. A. D. Lumb, Dr. E. Spencer, Prof. Aladár Vendl, and Prof. Miklós Vendl were confirmed.

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

The General Secretary then read the following ANNUAL REPORT OF COUNCIL.

During the Session 1924-5 four ordinary meetings have been held (by kind permission) in the Apartments of the Geological Society, Burlington House, W., at which twenty papers were read.

Four numbers of the Journal (nos. 107-110), containing twenty papers and 703 abstracts, have been issued quarterly. In no. 110 the blocks for Plates VII and VIII were lent by Dr. Hutchinson.

A Committee was appointed to consider the state of the Society's Library, and in accordance with its recommendations the books retained in the Library have been reduced to those of purely mineralogical interest including separate copies of mineralogical papers and also, for the present, all periodicals which are still being received by presentation or exchange. Of the books discarded, some were presented to the Geological Society of London, the Sedgwick Museum of Geology, the Cambridge Philosophical Society, and the Cambridge School of Geography, and the residue was sold. The proceeds of the sale are to be devoted to the upkeep of the Library.

The contributed papers and discussion of the joint meeting of the Faraday, Geological, and Mineralogical Societies on the physical chemistry of igneous rocks has been published, and is available to Members of the Society at a reduced price.

The balance-sheet for the year ending December 31, 1924, showed that the financial position of the Society was satisfactory. The assets (exclusive of the Library and stock of the publications) amounted to £1,404 7s. 3½d., with no liabilities. The value of the Stock invested in the names of the Trustees of the Society was on that date £1,112 17s. 6d., corresponding to £24 8s. 1d. for each Life-Member. A sum of £100 was granted by the Royal Society from the Government Publication Fund in aid of the publication of 'Mineralogical Abstracts'.

During the Session the Society has lost by resignation two Ordinary Members, by removal for non-payment of subscriptions two Ordinary Members, and by death four, namely: Sir Archibald Geikie, one of the original members of the Society; Prof. G. D. Liveing, one of the members of the Crystallogical Society;

[Continued on p. xxxiv.]

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

	RECEIPTS.		GENERAL PUR.	
	£	s. d.	£	s. d.
By Balance brought forward from 1924—				
1. At Bankers :				
(a) Current Account	31	4 6		
(b) Deposit Account	100	0 0		
2. In Office	2	8 7		
			133	8 1
Annual Subscriptions—				
1. Current year	113	4 0		
2. Advance	10	10 0		
3. Arrears	40	19 0		
			164	13 0
Entrance Fees ¹			22	1 0
Composition Fees			47	5 0
Sale of Publications—				
1. During 1924 :				
(a) By Publishers (£179 15s. 6d. less trade discount £29 19s. 3d. and Commission £18 14s. 6d.)	181	1 9		
(b) By Custodian of Stock (Balance due)	2	0 0		
2. During 1925 :				
By Custodian of Stock (£27 5s. 0d. less trade discount £0 5s. 0d. and distribution charges £1 12s. 9d.) ²	25	7 8		
			158	9 0
Interest on Investments—				
1. £1,050 5% War Loan Inscribed Stock ³	51	5 0		
2. £50 5% National War Bonds 1927 Registered ⁴	2	10 0		
3. £50 4% Funding Loan Inscribed Stock	2	0 0		
			55	15 0
Deposit Interest			8	19 8
Government Publication Grant administered by the Royal Society			100	0 0

£690 10 9

¹ Includes five overdue fees.

² Includes one payment in advance

³ Includes investment made during the year.

⁴ Incorrectly termed 'inscribed' in accounts for 1924.

SOCIETY.

FOR THE YEAR ENDING DECEMBER 31, 1925.

POSES ACCOUNT.

PAYMENTS.	£	s.	d.	£	s.	d.
To Printing and distributing the Mineralogical Magazine Nos. 108-111 inclusive (Oxford University Press), 1925—						
1. Printing	363	4	9			
2. Illustrations	22	4	3			
3. Authors' Copies	26	10	8			
4. Distribution Charges	12	16	6			
						424 15 9
Printing and distributing notices of Meetings and other miscellaneous printing, 1925						16 19 0
Expenses at Meetings—						
1. During 1924 :						
Proportion due under guarantee of expenses of joint Meeting with the Faraday and Geological Societies		3	7	8		
2. During 1925 :						
(a) Operator of the lantern		2	2	0		
(b) Porter		1	0	0		
						6 9 8
Care of the Stock of Publications, 1925 (J. Mugford)					1	1 0
Editor's Honorarium, 1925					25	0 0
Postage, &c., 1925—						
1. Hon. Secretary			14	0		
2. Editor		2	2	10		
3. Hon. Treasurer (not charged)						
						2 16 10
Renewal of Stock of Stationery					3	18 0
Bank charges, cheque book, and other small items						15 1
Investment of Composition Fees, Purchase of £50 5% War Loan Inscribed Stock, Commission and Stamp						50 6 9
Balance, December 31, 1925—						
1. At Bankers :						
(a) Current account		42	7	4		
(b) Deposit account		115	0	0		
2. In Office		1	1	4		
						158 8 8
						<u>£690 10 9</u>

Examined and compared with vouchers and found correct.

J. PAUL DE CASTRO }
A. F. HALLIMOND } Auditors.
F. N. ASHCROFT, Hon. Treasurer.

January 16, 1926

LIBRARY FUND

RECEIPTS.

	£	s.	d.
By Sale of surplus books and periodicals	55	0	0
Deposit Interest		5	6

£55 5 6

BALANCE

DECEMBER

LIABILITIES.

£ s. d.

Excess of assets over liabilities	1541	19	8
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£1541 19 8

ACCOUNT.

		PAYMENTS.		£ s. d.	
To Binding of Periodicals				1	19 0
Balance, December 31, 1925—					
At Bankers :					
(a) Current Account			3 6 6		
(b) Deposit Account			50 0 0		
			<hr/>	53	6 6
				<hr/>	£55 5 6
				<hr/>	<hr/>

Examined and compared with vouchers and found correct.

J. PAUL DE CASTRO } Auditors.
 A. F. HALLIMOND }
 F. N. ASHCROFT, Hon. Treasurer.

January 16, 1926.

SHEET.

31, 1925.

		ASSETS.		£ s. d.		£ s. d.	
Balances—							
I. General Purposes Account:							
1. At Bankers :							
(a) Current account			42 7 4				
(b) Deposit account			115 0 0				
2. In Office			1 1 4				
			<hr/>			158	8 8
II. Library Fund Account :							
At Bankers :							
(a) Current Account			3 6 6				
(b) Deposit Account			50 0 0				
			<hr/>			53	6 6
Sale of Publications—							
By Publishers during 1925 (since paid)						159	5 8
Investments at Broker's Valuation—							
1. £1,050 5% War Loan Inscribed Stock at 101½		1067	1 8				
2. £50 5% National War Bonds 1927 Registered ¹ at 105½			52 12 6				
3. £50 4% Funding Loan Inscribed Stock at 85½			42 17 6				
			<hr/>			1162	11 8
Arrears of Annual Subscriptions, valued at						8	8 0
						<hr/>	<hr/>
						£1541	19 8

¹ Incorrectly termed 'inscribed' in Balance Sheet for December 31, 1924.
 The stock of Publications and the value of the Library are not included in the above assets.

January 16, 1926.

F. N. ASHCROFT, Hon. Treasurer.

Prof. G. Murgoci and Mr. R. C. Webb; and the name of one Life-Member, Mr. Louis Wills, of whom for many years all trace has been lost, has been removed from the List of Members. Fifteen Ordinary Members have been elected. The total number of members on November 2, 1925, was 186, of whom twelve are Honorary. Of the Ordinary Members 46 are Life-Members.

During the Session Dr. Prior has continued to represent the Society on the Federal Council of Pure and Applied Chemistry, and Dr. Spencer and Dr. Herbert Smith on the 'Publications' and 'Miscellaneous' Committees respectively of the Imperial Mineral Resources Bureau.

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

On the motion of Dr. Herbert Smith, seconded by Mr. Tully, the Report was adopted.

The following papers were then read:—

1. The dissociation of dolomite: by Mr. C. S. Garnett (p. 21).
2. A new refractometer: by Mr. B. J. Tully.
3. New British occurrences of alstonite and barytocalcite: by Mr. Arthur Russell.
4. The meteoric iron of Vaalbult and meteoric stones of Witklip and Queens Mercy, South Africa: by Dr. G. T. Prior.

The new refractometer was exhibited by Mr. Tully, and specimens by Mr. Russell and Dr. Prior in illustration of their papers.
