

PROCEEDINGS  
OF THE  
MINERALOGICAL SOCIETY  
(1941)

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., January 23, 1941, at 12 noon.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Lieut. Edward Drummond Taylor was proposed and provisionally elected an Ordinary Member of the Society. The resignation of Mr. D. J. Gear was accepted. The names of certain members in arrear with their annual subscriptions were read, and that of Dr. S. W. Wooldridge was removed from the List of Members.

The Treasurer presented the audited annual accounts and balance-sheet for 1940, which were approved; and he stated that precautionary measures had been taken for the safety of the Society's archives, and that he had reported to the Royal Society on the financial position of the Society.

A report was received from the Editor, who stated that the editing of the Magazine had been done from the Mineral Department of the British Museum (by T. Davies, L. Fletcher, H. A. Miers, and L. J. Spencer) for over fifty years, and that this might very well be continued.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., January 23, 1941, at 2.30 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Twenty Members and three Visitors were present.

The election of Lieut. E. D. Taylor as an Ordinary Member of the Society was confirmed.

The following exhibit was briefly explained: Spherulitic masses of zinc-blende replacing limestone from Rotherhope Fell mine, Cumberland, and baryte replacing limestone from Silverband mine, Westmorland (Dr. K. C. Dunham).

The following papers were then read:

1. A micro-chemical analysis of kornerupine: by Dr. M. H. Hey (vol. 26, p. 119).
2. Hydrozincite from Narlarla, West Kimberley district, Western Australia: by Dr. R. T. Prider (read by the General Secretary) (vol. 26, p. 60).
3. Osbornite, meteoritic titanium nitride: by Mr. F. A. Bannister (vol. 26, p. 36).
4. Note on some minerals either new or rare to Britain: by Mr. Arthur Russell.

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#### EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., March 13, 1941, at 2 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Mr. George Howard Osborn was provisionally elected an Ordinary Member of the Society. The resignation of Mr. H. C. G. Vincent was accepted.

Reports were received from the Treasurer and the Editor. The Treasurer stated that the bulk of the stock of the *Mineralogical Magazine* had been removed for safety to the University Press at Oxford, and it was agreed that a letter of thanks be sent to Dr. John Johnson, Printer to the University, for kindly providing storage room.

It was decided to present the four numbers of the Magazine for 1941 to the Chinese University Libraries of Peiping and Chungking.

#### GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., March 13, 1941, at 3.30 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Twenty-four Members and three Visitors were present.

The election of Mr. G. H. Osborn as an Ordinary Member of the Society was confirmed.

Dr. A. T. J. Dollar exhibited a hemispherical rotational apparatus of thermo-plastic resin for use on the microscope stage.

The following papers were then read:

1. The Gibeon shower of meteoritic irons in South-West Africa: by Dr. L. J. Spencer (vol. 26, p. 19).

2. Metasomatism in the basalt of Haddenrig quarry near Kelso, and the veining of the rocks exposed there: by Mr. S. I. Tomkeieff (read by Dr. J. Phemister) (vol. 26, p. 45).

3. Note on the occurrence of spinel as a product of combustion of German incendiary bombs: by Dr. G. F. Claringbull.

### EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House, London, W., June 5, 1941, at 3.30 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Messrs. Cyril Jukes, Peter Zodac, and Reginald Stevenson Collins were provisionally elected Ordinary Members of the Society. The resignation of Dr. G. van Praagh was accepted. The death of Prof. C. G. Cullis was reported.

Reports were received from the Treasurer and the Editor.

A letter was received from the Royal Society announcing that a sum of £100 had been allocated to the Society from the Rockefeller Foundation Grant as an aid to scientific publications.

The following dates for the meetings in 1942 were approved: Thursdays, January 22, March 19, June 4, November 5.

The list of Officers and Council for 1941-2 was considered. The following were due to retire: Vice-President, Lieut.-Col. W. Campbell Smith; Ordinary Members of Council, Prof. H. L. Bowman, Dr. H. F. Harwood, Dr. W. F. P. McLintock, and Dr. J. Phemister. The following were proposed for submission to the Society: as Vice-President, Dr. W. F. P. McLintock; as Ordinary Members of Council, Mr. B. W. Anderson, Mr. C. F. Davidson, Dr. N. F. M. Henry, and Dr. W. R. Jones.

### GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House, London, W., June 5, 1941, at 5 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Twenty-five Members and five Visitors were present.

The elections of Messrs. C. Jukes, P. Zodac, and R. S. Collins as Ordinary Members of the Society were confirmed.

Dr. L. J. Spencer exhibited the third Roebing Medal which had been presented to him by the Mineralogical Society of America.

The President showed an exceptionally large polysynthetic crystal of cassiterite from Northern Nigeria.

Mr. G. H. Osborn exhibited a large mass of magnesium crystals that had been grown from sea-water by a secret process.

The following papers were then read:

1. Native gold and silver with other minerals from the Old West mine, Penhalonga, Southern Rhodesia: by Mr. A. M. Macgregor (read by the Editor) (vol. 26, p. 97).

2. The identity of 'eggonite' with sterrettite: by Mr. F. A. Bannister (vol. 26, p. 131).

3. The determination of the orientation of section planes of meteoritic irons: by Dr. M. H. Hey (vol. 26, p. 141).

4. Note on a contact-altered limestone from Chapel quarry, Fife: by Dr. A. G. MacGregor and Dr. J. Phemister.

5. Observations on the alteration products of stibnite: by Dr. W. R. Schoeller (vol. 26, p. 94).

6. On the graphical representation of some pyroxenes and amphiboles: by Dr. A. F. Hallimond.

7. Notes on some minerals either new or rare to Britain. Part 2: Orpiment: by Mr. Arthur Russell.

8. On a crystal of augelite from California: by Prof. M. A. Peacock and Mr. D. A. Moddle (vol. 26, p. 105).

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#### EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., November 6, 1941, at 2 p.m.*

MR. ARTHUR RUSSELL, President, in the Chair.

Dr. Norman Bell Keevil and Mr. Gordon Frederick Andrews were provisionally elected Ordinary Members of the Society. The deaths of Mr. Maurice Blumenthal and Mr. Charles W. Mathews were reported.

Reports were received from the Treasurer and the Editor.

The General Secretary presented the draft annual report of the Council for 1940-1, which was approved.

Prof. H. L. Bowman and Dr. J. V. Harrison, the auditors for 1941, were reappointed for 1942.

## GENERAL (ANNIVERSARY) MEETING

*Held in the Apartments of the Geological Society, Burlington House,  
London, W., November 6, 1941, at 3.15 p.m.*

Mr. ARTHUR RUSSELL, President, in the Chair.

Thirty-four Members and four Visitors were present.

Mr. F. G. H. Blyth and Mr. C. E. N. Bromehead were appointed as scrutineers of the voting papers for the election of Officers and Council.

The elections of Dr. N. B. Keevil and Mr. G. F. Andrews were confirmed.

The General Secretary read the following:

## ANNUAL REPORT OF THE COUNCIL FOR 1940-1

*Membership.*—According to the Society's records the total membership was on October 31, 262 against 264 on October 31, 1940, but for the reasons given below this figure may be subject to correction. Six new members have been elected. On the other hand, the Society has lost by death three Ordinary Members, Prof. C. Gilbert Cullis, Charles W. Mathews, and Maurice Blumenthal; three Members have resigned, the name of one other has been removed from the List of Members on account of arrears in subscription, and one election has been declared void. On that date the Membership consisted of six Honorary Members and 256 Ordinary Members, 211 of the latter being Annual Subscribers, and 45 Life Members. Of the Ordinary Members of the Society 152 were resident in Great Britain, 50 in the Dominions and Colonies, 25 in the United States of America, and 29 in other countries. Of the 29 Ordinary Members just mentioned 16 (14 Annual Subscribers and 2 Life Members) were resident in enemy or enemy-occupied countries. All touch with them and with two Honorary Members resident in occupied countries has been lost.

*Meetings.*—The usual four ordinary meetings were held during the session 1940-1, at which 19 papers were read, and 6 exhibits shown, but owing to existing circumstances, the attendance was below normal. The total attendance at these meetings was 88 Members and 11 Visitors.

*Publications.*—In spite of considerable difficulties the regular quarterly issue of the *Mineralogical Magazine* has been maintained. Of the four numbers published during the year, three (172-174) contained 12 papers in 104 pages, with 3 plates, and 508 abstracts in 144 pages, as well as the Bye-Laws, List of Members, and Proceedings for 1940 in 36 pages. No. 171 contained the index to vol. 25 of the Magazine and vol. 7 of the abstracts in 120 pages.

*Financial.*—The accounts for the calendar year 1940, published in March last, showed an excess of Assets (exclusive of the stock of the *Mineralogical Magazine*, certain periodicals, and the securities allocated to the Composition Fees Account) over Liabilities of £1409. 1s. 6d. The value of the securities standing in the name of the Custodian Trustee on December 31, 1940, was, General Reserve £1212. 8s. 0d., Composition Fees Account £1083. 7s. 10d.

The outlook at the close of 1940 indicated clearly that strict economy would be necessary during 1941, and with this end in view, the Council then decided, as a precautionary measure, to limit the expenditure on the *Mineralogical Magazine* during 1941 to a maximum of £400.

The cash at Bankers, in the Post Office Savings Bank, and in hand on January 1, 1941, amounted to £157. 3s. 11d. against £321. 15s. 7d. at the beginning of 1940. A further heavy fall in the receipts from the Society's publishers for sales of the *Mineralogical Magazine* was anticipated, as was a considerable decline in the receipts from Annual Subscriptions.

The receipts from the publishers for sales amounted to £122. 4s. 2d. against an estimate of about £100. The corresponding figures for these receipts were £248. 10s. 4d. and £178. 11s. 10d. in 1939 and 1940 respectively. As regards Annual Subscriptions, it was estimated that of the total sum receivable for 1941, £178. 10s. 0d. would have been received by the close of the year, and about £7. 7s. 0d. as arrears. The total sum receivable from the 213 Annual Subscribers registered in the Society's books on January 1, 1941, was, for 1941, £223. 13s. 0d., and as arrears, £26. 13s. 7d., in all £250. 6s. 7d. Of this sum, however, £24. 11s. 7d. was due from 14 Annual Subscribers resident in enemy or enemy-occupied countries, and its receipt during the year could not be expected, while a further sum of £8. 8s. 0d. was due from Annual Subscribers resident in countries from which the transmission of money was expected to be difficult, if not impossible.

By October 31, £190. 19s. 10d. had been received in respect of 1941 subscriptions and £4. 4s. 0d. as arrears, in all £195. 3s. 10d., and the estimated figure had been exceeded by £11. 8s. 10d.

One Annual Subscriber compounded early in the year, and his Composition Fee has been invested.

In May the Society received through the Royal Society the sum of £100. 0s. 0d. from the Rockefeller Foundation Grant, in aid of its publications. This quite unexpected donation much eased the financial situation, and the Council desires to record in this report its sincere appreciation of the gift. The Council also desires to thank the Editor for his donation towards the cost of illustrations.

On October 31 the cash available for current purposes amounted to £341. 6s. 8d. Interest on Investments and other receipts will, it is anticipated, bring in about £41, while the expenditure during the remainder of the year is estimated at about £166. On this basis the cash available at the close of the year should be approximately £216.

*General.*—Since the beginning of 1941 the Society's Archives and the greater part of the stock of the *Mineralogical Magazine* have been removed from London and deposited elsewhere. These removals and other necessary air-raid precautions have entailed an expenditure of £10. 14s. 8d. Some difficulties have been experienced owing to the loss by enemy action of correspondence and remittances, but it is hoped that the arrangements that have now been made will minimize possible future losses and obviate the inconvenience caused thereby to Members resident abroad.

On the proposal of Dr. G. F. H. Smith, seconded by Dr. N. F. M. Henry, the adoption of the annual report was carried unanimously.

A vote of thanks to the Geological Society for the use of its rooms, proposed by Prof. H. H. Read, seconded by Mr. F. A. Bannister, was carried with acclamation.

The scrutineers reported that 18 ballot papers had been received and that the following list as nominated by the Council had been approved.

*President.* Mr. Arthur Russell, M.B.E.

*Vice-Presidents.* Prof. H. H. Read, D.Sc., F.R.S.; Dr. W. F. P. McLintock, D.Sc., F.R.S.E., F.G.S.

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

*General Secretary.* Dr. G. F. Claringbull, B.Sc., Ph.D., F.G.S.

*Foreign Secretary.* Sir Thomas H. Holland, K.C.S.I., K.C.I.E., D.Sc., LL.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*

F. A. Bannister, M.A.

Dr. S. R. Nockolds, B.Sc., Ph.D., F.G.S.

Prof. Harold Simpson, M.A., D.Sc.

S. I. Tomkeieff, M.Sc., F.G.S.

E. H. Beard, B.Sc.

Dr. A. J. Bull, M.Sc., Ph.D., F.G.S.

Dr. L. Hawkes, D.Sc., F.G.S.

Miss J. M. Sweet, B.Sc.

B. W. Anderson, B.Sc., F.C.S.

C. F. Davidson, B.Sc., F.R.S.E., F.G.S.

Dr. N. F. M. Henry, M.A., B.Sc., Ph.D.

Prof. W. R. Jones, D.Sc., M.I.M.M.,

F.G.S.

A vote of thanks to the retiring Vice-President and Ordinary Members of Council was proposed by Dr. A. J. Bull, seconded by Mr. F. H. Stewart, and carried.

Dr. R. C. Evans and Mr. H. S. Peiser exhibited and explained a structure factor calculating machine for use in X-ray crystal analysis.

The following papers were then read:

1. Barium-felspars (celsian and paracelsian) from Wales: by Dr. L. J. Spencer.

2. Tricalcium disilicate (rankinite), a new mineral from Scawt Hill, Co. Antrim: by Prof. C. E. Tilley (vol. 26, p. 190).

3. On the origin of the name 'quartz': by Mr. S. I. Tomkeieff (vol. 26, p. 172).

4. Lamellar structure in orthopyroxenes: by Dr. N. F. M. Henry (vol. 26, p. 179).

5. The orientation of Widmanstetter figures in a random section: by Mr. Sidney Melmore (vol. 26, p. 167).

The following papers were taken as read:

6. An anorthite-epidote-garnet-hornfels from Namaqualand, South Africa: by Mr. C. B. Coetzee (communicated by Prof. F. Walker) (vol. 26, p. 134).

7. A nomogram for the law of direction-cosines: by Mr. S. I. Tomkeieff.

8. A note on the Schroeder van der Kolk method: by Dr. R. C. Evans and Dr. N. F. M. Henry.

# MINERALOGICAL

## ABSTRACT OF RECEIPTS AND PAYMENTS

	RECEIPTS	£	s.	d.	GENERAL PUR- £	s.	d.
By Balances brought in from 1940—							
1. At Bankers on Current Account . . . . .		48	14	3			
2. In Post Office Savings Bank . . . . .		106	13	10			
3. In Office . . . . .		1	15	10			
		157	3	11			
Entrance Fees . . . . .			5	5			
Annual Subscriptions—							
1. Current Year . . . . .		195	3	10			
2. Arrears . . . . .		4	4	0			
3. Advance . . . . .		12	14	9			
		212	2	7			
Sale of Publications—							
1. By Publishers, April 1, 1940–March 31, 1941. Sales at subscription rate £162 10s. 0d. and other sales £19 10s. 0d., less trade discount and commission £47 2s. 6d. and distribution charges £12 13s. 4d. . . . .	122	4	2				
2. By Custodian of Stock, 1941, £17 13s. 4d. less dis- tribution charges £1 1s. 1d. and cost of back numbers purchased £0 8s. 4d. . . . .	16	3	11				
	138	3	1				
Advertisement Fees £17 7s. 1d. less commission £3 9s. 5d. . . . .			13	17			
Interest on Investments including Income Tax re- covered—							
1. £693 3½% War Loan, 1952 and after, Inscribed Stock . . . . .	24	5	2				
2. £105 4% Consolidated Loan, 1957, Inscribed Stock . . . . .	4	4	0				
3. £100 4% Funding Loan, 1960–90, Inscribed Stock . . . . .	4	0	0				
4. £201 Metropolitan Water Board 3% 'B' Stock, Inscribed . . . . .	6	0	6				
5. £8910s.0d.3% War Loan, 1955–59, Inscribed Stock . . . . .	2	13	8				
	41	3	4				
Deposit Interest—							
1. Bankers . . . . .		0	2	9			
2. Post Office Savings Bank . . . . .		5	7	4			
		5	10	1			
Donations—							
1. Rockefeller Foundation for publication purposes, through the Royal Society . . . . .	100	0	0				
2. L. J. Spencer for illustrations . . . . .	6	11	0				
	106	11	0				
Small Receipts . . . . .			0	1			
Transfers from other Accounts—							
From Composition Fees Account, being Interest on Investments . . . . .			36	16			
			716	19	6		

# SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1941

## POSES ACCOUNT

	PAYMENTS	£ s. d.	£ s. d.
To Printing and distributing the Mineralogical Magazine Nos. 172-175 inclusive (Oxford University Press)			
1. Printing . . . . .		317 16 6	
2. Illustrations . . . . .		21 6 6	
3. Authors' Separate Copies . . . . .		21 19 1	
4. Distribution Charges . . . . .		14 0 0	
		<hr/>	375 2 1
Printing and distributing Notices of Meetings and other annual miscellaneous printing . . . . .			18 6 2
Miscellaneous Printing, &c. (not annual)—			
1. Secretary's notices . . . . .		0 9 3	
2. Treasurer's notices . . . . .		1 18 6	
3. Bye-laws and List of Members . . . . .		2 4 0	
		<hr/>	4 11 9
Expenses at Meetings—			
1. Operator of Lantern . . . . .		2 2 0	
2. Porter . . . . .		1 0 0	
3. Tea . . . . .		3 18 0	
		<hr/>	7 0 0
Custodian Trustee's charges . . . . .			0 11 8
Care of Stock of Publications, J. Mugford, Annual Fee			1 1 0
Editor's Honorarium . . . . .			50 0 0
Stationery . . . . .			2 16 5
Postage and telegrams—			
1. Hon. Secretary . . . . .		1 8 0	
2. Editor (not charged) . . . . .		0 0 0	
3. Hon. Treasurer . . . . .		6 7 5	
		<hr/>	7 15 5
Emergency Expenditure—			
Packing and transport of the balance of the Society's Records and of the stock of the Mineralogical Magazine, &c. . . . .			10 14 8
Bank Charges and other small items . . . . .			0 10 4
Balances December 31, 1941—			
1. At Bankers on Current Account . . . . .		53 2 4	
2. In Post Office Savings Bank . . . . .		185 7 4	
3. In Office . . . . .		0 0 4	
		<hr/>	238 10 0
			<hr/> <hr/>
			£716 19 6

Examined and compared with Vouchers and found correct.

H. L. BOWMAN }  
J. V. HARRISON } Auditors.

January 14, 1942.

F. N. ASHCROFT, Hon. Treasurer.

## BALANCE

	LIABILITIES	DECEMBER		
		£	s.	d.
To Annual Subscriptions received in advance—				
Received in 1941 for 1942 . . . . .			12	14 9
Sundry Creditors— . . . . .			0	0 0

Excess of Assets over Liabilities . . . . .			1503	18 8
			<u>£1516</u>	<u>13 5</u>

## COMPOSITION FEES ACCOUNT

	RECEIPTS	£	s.	d.	£	s.	d.
Composition Fees received as per last account . . . . .		1207	10	0			
Composition Fee received during year . . . . .		15	15	0			
					<u>1223</u>	<u>5</u>	<u>0</u>

## Interest on Investments including Income Tax recovered—

1. £992 3½% War Loan, 1952 and after, Inscribed Stock . . . . .		34	14	4			
2. £26 3% Conversion Loan, 1948-53, Inscribed Stock . . . . .		0	15	6			
3. £26 14s. 0d. Metropolitan Water Board 3% 'B' Stock, Inscribed . . . . .		0	16	0			
4. £25 18s. 0d. 3% War Loan, 1955-59, Inscribed Stock . . . . .		0	10	11			
					<u>36</u>	<u>16</u>	<u>9</u>

£1260   1   9

# SHEET

31, 1941

	ASSETS	£	s.	d.	£	s.	d.
By Balances—							
1. At Bankers on Current Account . . . . .		53	2	4			
2. In Post Office Savings Bank . . . . .		185	7	4			
3. In Office . . . . .		0	0	4			
					238	10	0
Sundry Debtors—							
Publishers (Oxford University Press):							
(a) For Sale of Publications, April 1–December 31, 1941, estimated at . . . . .		20	0	0			
(b) For Advertisement Fees, April 1–December 31, 1941, estimated at . . . . .		8	0	0			
					28	0	0
Investments at Brokers' Valuation—							
1. £693 3½% War Loan, 1952 and after, Inscribed Stock at 105% . . . . .		727	13	0			
2. £105 4% Consolidated Loan, 1957, Inscribed Stock at 111½% ex div. . . . .		117	1	6			
3. £100 4% Funding Loan, 1960–90, Inscribed Stock at 114½% . . . . .		114	10	0			
4. £201 Metropolitan Water Board 3% 'B' Stock, Inscribed, at 97% . . . . .		194	19	5			
5. £89 10s. 0d. 3% War Loan, 1955–59, Inscribed Stock at 101¼% . . . . .		90	12	4			
					1244	16	3
Annual Subscriptions in Arrear (£43 11s. 9d. including £25 12s. 7d. due from enemy and enemy-occupied countries) estimated to realize . . . . .							
			3	5	2		
Entrance Fees in Arrear . . . . .			2	2	0		
					£1516	13	5

Note.—The value of the periodicals retained after the disposal 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 14, 1942.

F. N. ASHCROFT, Hon. Treasurer.

## YEAR ENDING DECEMBER 31, 1941

	PAYMENTS	£	s.	d.	£	s.	d.
Investments as per last account—							
1. £992 3½% War Loan, 1952 and after, Inscribed Stock, valued by Brokers at £1041 12s. 0d. (105%) at cost . . . . .		1144	5	6			
2. £26 3% Conversion Loan, 1948–53, Inscribed Stock, valued by Brokers at £26 13s. 0d. (102½%) at cost . . . . .		26	9	6			
3. £26 14s. 0d. Metropolitan Water Board 3% 'B' Stock, Inscribed, valued by Brokers at £25 18s. 0d. (97%) at cost . . . . .		26	5	0			
4. £10 10s. 0d. 3% War Loan, 1955–59, Inscribed Stock, valued by Brokers at £10 12s. 7d. (101¼%) at cost . . . . .		10	10	0			
					1207	10	0
Investment made during the year, being Composition Fee received. Purchase of £15 8s. 0d. 3% War Loan, 1955–59, Inscribed Stock, valued by Brokers at £15 11s. 10d. (101¼%) at cost . . . . .							
			15	15	0		
Income transferred to General Purposes Account . . . . .			36	16	9		
					£1260	1	9

Examined and compared with Vouchers and found correct.

H. L. BOWMAN }  
J. V. HARRISON } Auditors.

January 14, 1942.

F. N. ASHCROFT, Hon. Treasurer.