PROCEEDINGS

OF THE

MINERALOGICAL SOCIETY

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., January 28, 1937, at 4 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

The deaths of Mr. Thomas Crook, Vice-President, and Mr. Edward Gramshaw Hopkins, both on January 6, were announced.

Mr. Friedrich Wilhelm Cassirer, Dr. Frank Dixey, Mr. Harold Irving Drever, Mr. Donald James Gear, Mr. John Vernon Harrison, and Colonel Jean Paul Louis Vésignié were provisionally elected Ordinary Members of the Society.

The resignations of Mr. Harvey Collingridge, Dr. Gertrude L. Elles, and Dr. H. E. Merwin were received and accepted. Mr. J. C. Taylor and Mr. K. Seto were removed from the list of members, being two years in arrears with subscriptions. Two other members one year in arrears were reported by the Treasurer.

The Treasurer presented the audited accounts for 1936. These were adopted and the Treasurer was again thanked for the care he had taken of the Society's financial well-being.

The Editor's report outlined the cost and contents of recent and forthcoming numbers of the Magazine.

The Library sub-committee reported on the exchange list of publications, and it was decided to cease sending to certain institutions at the end of the present volume of the Magazine.

The vacancy caused by the death of Mr. T. Crook was considered. Prof. C. E. Tilley was appointed Vice-President, and the vacancy on the Council was filled by the co-option of Dr. G. F. Herbert Smith.

Vacancies in the list of Honorary Members were considered, and Prof. Charles Palache was provisionally elected.

The date of the next meeting was fixed for March 11 instead of March 18.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W. January 28, 1937, at 5.30 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

Thirty-seven Members and twenty-four Visitors were present.

The elections of Messrs. F. W. Cassirer, F. Dixey, H. I. Drever, D. J. Gear, J. V. Harrison, and J. P. L. Vésignié as Ordinary Members of the Society were confirmed.

Dr. A. T. J. Dollar exhibited a device for counting mineral grains, Miss A. J. Hall a modified Kunitz centrifuge, and Mr. Arthur Russell specimens of rhodonite from Lidcott mine, Laneast, Cornwall. Specimens were also exhibited in illustration of papers by Dr. Edmondson Spencer and Messrs. Brammall, Leech, and Bannister.

The following papers were then read and discussed :----

1. The potash-soda-felspars: by Dr. Edmondson Spencer (vol. 24, p. 453).

2. Paragenesis of cookeite, hydromuscovite, and free gold from Ogofau, Carmarthenshire: by Dr. Alfred Brammall, Major J. G. C. Leech, and Mr. F. A. Bannister (vol. 24, p. 507).

3. Note on optically-positive hypersthene from Manchuria: by Dr. K. Tsuru and Mr. N. F. M. Henry (vol. 24, p. 527).

4. A note on an interesting occurrence of lawsonite in glaucophanebearing rocks from New Caledonia: by Dr. Germaine A. Joplin (vol. 24, p. 534).

5. An occurrencé of the mineral pumpellyite in the Lake Wakatipu region, western Otago, New Zealand: by Mr. C. Osborne Hutton (vol. 24, p. 529).

6. The tektite problem: by Dr. L. J. Spencer (taken as read) (vol. 24, p. 503).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., March 11, 1937, at 4 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

The deaths of Sir Albert Ernest Kitson, on March 8, and Prof. Alexander Hamilton Phillips, on January 20, were announced.

Mr. Francis George Henry Blyth, Prof. Heinrich Ferdinand Huttenlocher, Mr. Arthur Montgomery, Mr. Robert Oscar Warburg, and Mr.

xxxii

Henry James Reginald Way were provisionally elected Ordinary Members of the Society.

The vacancies in the list of Honorary Members were further considered, and Prof. Thomas Leonard Walker was provisionally elected.

Reports were received from the Treasurer and the Editor.

The sub-committee on bibliographical references and abbreviations submitted a report. There was no agreement for the adoption of any one particular method.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., March 11, 1937, at 5.30 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

Thirty-six Members and one Visitor were present.

The elections of Messrs. F. G. H. Blyth, H. F. Huttenlocher, A. Montgomery, R. O. Warburg, and H. J. R. Way as Ordinary Members of the Society were confirmed.

Prof. Charles Palache of Harvard University and Prof. Thomas Leonard Walker of Toronto were proposed as Honorary Members from the chair and were unanimously elected.

The following papers were read and discussed:---

1. A universal ore-polishing machine: by Dr. F. C. Phillips (vol. 24, p. 595).

2. On the occurrence of turquoise in Cornwall: by Mr. Arthur Russell.

3. The deuteric mineral sequence in the Enogera granite, Queensland: by Miss Marjorie J. Whitehouse (vol. 24, p. 538).

4. X-ray data on rhodonite, pyroxmangite, and iron-rhodonite: by Mr. M. Perutz, communicated by Prof. C. E. Tilley (vol. 24, p. 573).

Specimens were exhibited in illustration of the papers by Dr. F. C. Phillips and Mr. Arthur Russell, and Dr. A. T. J. Dollar exhibited a form of compass variometer for mapping hidden basic dikes.

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., June 24, 1937, at 4.15 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

Messrs. George Penrose, William Percy Simmons, Kenneth Allison Townley, Herbert Cubitt Gostling Vincent, and Gratian Michael Yatsevitch were provisionally elected Ordinary Members of the Society.

XXXIV PROCEEDINGS OF THE MINERALOGICAL SOCIETY

Reports were received from the Treasurer and the Editor. On the proposal of the Treasurer it was agreed to promise a donation of £30 towards the expenses of the International Geological Congress if held in London in 1940.

The list of Officers and Council for 1937-38 was considered. The President announced that the General Secretary had told him that he wished to retire in November at the end of ten years in office. After discussion the General Secretary agreed to remain in office until November 1938 in order to give full opportunity to the Council to select his successor. No change in the list of Officers was proposed. The Ordinary Members of Council due to retire were Prof. A. Brammall, Mr. C. W. Mathews, Prof. T. C. Phemister, and Mr. A. Broughton Edge. The following were agreed upon for submission to the Society: previous Members of Council—Prof. C. G. Cullis and Dr. F. C. Phillips; new Members—Dr. G. F. Claringbull and Sir Lewis L. Fermor.

The dates for meetings in 1938 were arranged as follows: Thursdays, January 27, March 10, June 9, and November 3.

Letters thanking the Society for having elected them Honorary Members were received from Prof. Charles Palache and Prof. T. L. Walker.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., June 24, 1937, at 5.30 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

Twenty-eight Members and two Visitors were present.

The elections of Messrs. G. Penrose, W. P. Simmons, K. A. Townley, H. C. G. Vincent, and G. M. Yatsevitch as Ordinary Members of the Society were confirmed.

Dr. A. T. J. Dollar exhibited a photo-electric thermostat for controlling laboratory electric furnaces.

The following papers were read and discussed:-

1. Wollastonite solid solutions from Scawt Hill, Co. Antrim: by Prof. C. E. Tilley (vol. 24, p. 569).

2. Notes on silicate synthesis with a laboratory gas furnace: by Dr. A. T. J. Dollar.

3. Some new pyroxenes included in the system clinoenstatite, clinohypersthene, diopside, hedenbergite: by Dr. W. A. Deer and Mr. L. R. Wager (vol. 25, p. 15). 4. A new micro-pyknometric method for the specific gravity of heavy solids; with a note on the accuracy of specific gravity determinations: by Mr. F. A. Bannister and Dr. M. H. Hey (vol. 25, p. 30).

5. An occurrence of corundum at Fraserburgh, Aberdeenshire: by Mr. Robert Walls.

6. A review of the data of the Mg-Fe-clinopyroxenes: by Mr. N. F. M. Henry (vol. 25, p. 23).

The following papers were taken as read:---

1. Fourteenth list of new mineral names: by Dr. L. J. Spencer (vol. 24, p. 601).

2. Paragenesis of kyanite-amphibolites: by Prof. C. E. Tilley, with chemical analyses by Mr. H. C. G. Vincent (vol. 24, p. 555).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., November 4, 1937, at 4 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

The deaths of Prof. Reinhard Brauns, Honorary Member, on January 28, 1937, and Mr. John Williams Daw, Life Member, in 1934, were reported. The resignation of Mr. John Herbert Thomas was received and accepted.

Messrs. Frederick William Dennis, Tom Eastwood, and Philip Malcolm Game were provisionally elected Ordinary Members of the Society.

Reports were received from the Treasurer and the Editor. In view of the low numbers of certain recent issues of the Magazine remaining in stock, it was decided to increase the numbers of copies printed to 650.

The report of the Library committee was presented. The offer of the Society's Library to members had resulted in only very small sales. Several firms of booksellers had been asked to tender for the remainder (except the reserved periodicals), and the highest tender was accepted.

The General Secretary presented the draft annual report which was approved.

A letter of thanks was received from the Geological Society for promised financial assistance in connexion with the XVIII Session of the International Geological Congress to be held in London in 1940.

After some discussion on the spelling of felspar or feldspar, it was agreed that the Nomenclature Committee be dissolved.

VOL. 25-160-3

GENERAL (ANNIVERSARY) MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., November 4, 1937, at 5.30 p.m.

Dr. L. J. SPENCER, F.R.S., President, in the Chair.

Forty Members and one Visitor were present.

Drs. Malcolm MacGregor and S. R. Nockolds were appointed as scrutineers of the voting-papers for the election of Officers and Council.

The elections of Messrs. F. W. Dennis, T. Eastwood, and P. M. Game as Ordinary Members were confirmed.

The General Secretary then read the following:-

ANNUAL REPORT OF COUNCIL FOR 1936-1937.

Four ordinary meetings have been held, 22 papers have been read, and 8 exhibits have been made during the session. The attendance at the four meetings totalled 184 including 38 visitors. The total membership on October 31, 1937, was 252 including 8 honorary members. Professors Charles Palache of Harvard and T. L. Walker of Toronto were elected honorary members and 21 ordinary members have been elected. During the year five members have resigned, three have ceased to be members owing to non-payment of subscriptions, and the Society has lost by death, one honorary member, Professor Reinhard Brauns, a Vice-President, Mr. Thomas Crook, and four ordinary members, Mr. John W. Daw, Mr. Edward G. Hopkins, Sir Albert Kitson, and Professor A. H. Phillips. Four numbers of the Mineralogical Magazine (Nos. 155–158) have been issued during the session. They contain twentyone papers in 262 pages with 47 figures and 11 plates, also 12 pages of proceedings. Mineralogical Abstracts published with these numbers contain 677 abstracts in 200 pages.

The accounts for the year ending December 31, 1936, showed an excess of assets over liabilities of £1363 18s. 4d. against £1250 13s. 5d. on December 31, 1935. These assets do not include the Library and unsold stock of publications, nor the Securities allocated to the Composition Fees Account. The value of the securities standing in the names of the Trustees on December 31, 1936, was: General Reserve £1048 11s. 4d., Composition Fees Account £1065 12s. 8d., against £996 11s. 7d. and £1055 17s. 0d. respectively on December 31, 1935. One Composition Fee was received during the year.

Following on the decision of the Council to dispose of the bulk of the Society's Library the books were offered for sale to the members. This resulted in the sale of only a few books. Firms of leading London booksellers have now been invited to tender for the remainder of the library. 116 parts of periodicals, &c., have been received during the year and 48 have been borrowed (almost all by the Editor for abstracting).

A sub-committee of the Council was nominated to consider proposals put forward by the Royal Society for standardized methods of giving bibliographical references and for standardized abbreviations. The President represented the Society at a joint meeting of representatives of scientific societies on December 15, 1936, and the sub-committee reported to Council on March 11, 1937. No agreement was reached on the standardized methods proposed. Sir Lewis L. Fermor proposed the adoption of the Report; this was seconded by Prof. H. L. Bowman and carried unanimously.

The scrutineers reported that 51 voting-papers for the Officers and Council for the ensuing year had been received and that the list nominated by the Council had been approved. The President declared these Officers and Ordinary Members of Council elected:—

President. Dr. L. J. Spencer, C.B.E., M.A., Sc.D., F.R.S.

Vice-Presidents. Prof. P. G. H. Boswell, O.B.E., D.Sc., F.R.S.

Prof. C. E. Tilley, B.Sc., Ph.D., 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, C.B.E., M.A., Sc.D., F.R.S.

Ordinary Members of Council.

Dr. G. F. Herbert Smith, M.A.,
D.Sc., F.R.A.S.
Prof. C. G. Cullis, D.Sc., M.I.M.M.,
F.G.S.
Dr. F. C. Phillips, M.A., Ph.D.,
F.G.S.
Dr. G. F. Claringbull, B.Sc., Ph.D.,
F.G.S.
Sir Lewis L. Fermor, O.B.E.,
D.Sc., F.R.S.

A vote of thanks to the retiring Members of Council, Prof. A. Brammall, Mr. A. Broughton Edge, Mr. C. W. Mathews, and Prof. T. C. Phemister, was proposed by Dr. W. R. Jones; this was seconded by Dr. L. Hawkes and carried unanimously.

Dr. M. H. Hey proposed that the thanks of the Society be sent to the Geological Society of London for allowing the Mineralogical Society to use their rooms for meetings during the year. This was seconded and carried unanimously.

The President proposed a vote of thanks to the abstractors and read a list of these to the meeting.

Exhibits at this meeting were the following:----

1. Beryl from the Beam mine, St. Austell, Cornwall; an old specimen from the collection of the Geological Survey and Museum (Dr. A. F. Hallimond).

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

GENERAL PUR-

Receipts	£	8.	d.	£	8.	d.
By Balances brought forward from 1936—						
1. At Bankers:						
(a) Current Account	34	16	7			
(b) Deposit Account	195		-			
2. In Office	0	8	11			
				230	5	6
Entrance Fees	•		·	22	1	0
Annual Subscriptions—						
1. Current year	194	0	3			
2. Arrears	4	4	0			
3. Advance	6	6	0			
Sale of Publications-				204	10	3
1. By Publishers, April 1, 1936-March 31, 1937. Sales at subscription rate £244 0s. 0d. and other						
sales £36 1s. 0d., less trade discount and com-						
mission £73 0s. 4d., and distribution charges						
a11 10 a1	195	7	2			
2. By Custodian of Stock, 1937. £36 2s. 0d. less	100		-			
distribution charges £1 13s. 1d.	34	8	11			
0				229	16	1
Advertisement Fees, £23 15s. 2d., less commission						
$\pounds 4 \ 15s. \ 0d.$				19	0	2
TALAL TALA						
Interest on Investments as received						
1. £640 31% War Loan 1952 and after, Inscribed		-	_			
Stock .	22	-				
2. £105 4% Consolidated Loan 1957, Inscribed Stock	4	-	~			
3. £100 4% Funding Loan 1960–90, Inscribed Stock	4	0	0			
4. £201 Metropolitan Water Board 3% 'B' Stock,			~			
Inscribed	4	4	0	94	10	•
Deposit Interest—				34	16	0
1. Bankers	1	9	0			
2. Post Office Savings Bank		16				
2. I OST OILCE DAVINGS DAIR		10		4	5	3
Proceeds of sale of Library		L.		54	-	8
Small Receipts			÷	ō	ĩ	4
	-		•	-	-	-
Transfers from other accounts—						
From Composition Fees Account, being Interest on						
Investments				35	4	9
	•		-			
				£834	7	0

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1937

POSES ACCOUNT

PAYMENT	rs					£	<i>s</i> .	d.	£	8.	d.
To Printing and distributing the Nos. 156–159 inclusive (O	e Min xford	neralog Unive	ical M ersity l	agazi Press)	ne						
1. Printing						338	9	6			
2, Illustrations .						39	17	6			
3. Authors' Separate Copies	3					26		6			
4. Distribution Charges		•	•	•	•	_	11				
5. Postal wrappers (renewa	l of s	tock)	•	•	•	2	4	6	400	0	0
Printing and distributing Noti annual miscellaneous prin			ings ar	nd otl	ıer				422 16	9 6	6 0
1	0		•	•	•						
Miscellaneous Printing &c. (no		nual)~	-						-		~
Notices re disposal of Libra	гу	·	·	•	٠	·		·	1	1	0
Expenses at Meetings-											
1. Operator of lantern						2	2	0			
2. Porter						1		0			
3. Tea						3	18	0			
						~~~~	-		7	0	0
Care of Stock of Publications, Editor's Honorarium			l, Ann	ual F	ee	•	•	·	1	l	0
Editor's Honorarium . Librarian's Honorarium .	·	·	•	·	•	•		•	50	0	0
Librarian's Honorarium .	•	•	•	•	•	•		·	5	0	U
Postage—											
1. Hon. Secretary						1	0	8			
2. Editor							17				
3. Librarian						0	10	11			
4. Hon. Treasurer (not char	ged)	•			•	_ 0	0	0			
Contribution towards the ex			<b>4</b> 1						2	9	6
International Geological (	Cong	ses of ross 1	$\frac{100}{10}$	ropo	sea				30	0	0
•	0	-	740	•	•	•		•	30	0	0
Bank charges and other small	item	ıs		•	•	•		•	0	7	8
Investments (including proce	eda	of the	a sale	of t	he						
Library) Purchase of £	61 1	Metron	olitan	Wa							
Board 3% 'B' Stock, Ins	cribe	d	•						54	16	4
Balance, December 31, 1937-											
1. At Bankers:	-										
	•		•	•	•		7	5			
(b) Deposit Account		•	-	•	•	65		0			
2. Post Office Savings Banl 3. In Office		•	•	•	·	152					
3. In Office	•	•	•	•	•	0	12	4	243	16	0
									240	10	
									£834	7	0
Examined and compared with	Vor	ichere	and fo	und 4	۰ <b>۵۳</b> ۳	ect					
and compared with		CHEIS									
			F. A.	DAN	ШĿ	91.ER	<u></u>	Au	ditor	3.	

GILBERT WILSON | Auditors.

January 13, 1937.

F. N. ASHCROFT, Hon. Treasurer.

#### PROCEEDINGS OF THE MINERALOGICAL SOCIETY

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Excess of Assets over Liabilities	•			1427	15	3
				£1435	2	3

## COMPOSITION FEES ACCOUNT

RECEIPTS	£	8.	d.	£	8.	d.
By Composition Fees received as per last Account	1165	10	0			
Composition Fee received during year	15	15	0			
1				1181	5	0
Interest on Investments as received—						
1. £975 34% War Loan 1952 and after, Inscribed						
Stock	34	<b>2</b>	6			
2. £26 3% Conversion Loan 1948-52, Inscribed						
Stock	0	10	9			
3. £26 14s. 0d. Metropolitan Water Board 3% 'B'						
Stock, Inscribed	0	16	0			
				35	9	3

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31, 1937						
Assets	£	8.	d.	£	8.	d.
By Balances	-					
1. At Bankers:						
	25					
(b) Deposit Account	65	- 0	0			
(b) Deposit Account	152	16	- 3			
3. In Office	0	12	4			
				243	16	0
Sundry Debtors—						
Publishers (Oxford University Press):						
(a) For sales of Publications, April 1–Dec. 31,						
1937	113	14	8			
(b) For advertisement Fees, April 1–Dec. 31,		-	_			
1937	12	12	9			
· · · · · · · · · · · · · · · · · · ·				126	7	5
Investments at Brokers' Valuation-						
1. $\pounds 6403\frac{1}{2}$ War Loan 1952 and after, Inscribed			~			
Stock, at 1012%	651	4	0			
2. £105 4% Consolidated Loan 1957, Inscribed			10			
Stock, at $1093\%$ .	114	16	10			
3. £100 $4_{70}^{0}$ Funding Loan 1960-90, Inscribed	110	<b>1</b> m	•			
Stock, at $112\frac{3}{6}$ .	112	15	0			
4. £201 Metropolitan Water Board 3% 'B'	100	10	•			
Stock, Inscribed, at $90^{0/}_{0}$	180	18	0	1050	10	10
Amount Submaniations in annual (SO On Orly set) in the last			*****	1059	-	
Annual Subscriptions in arrear (£8 8s. 9d.) estimated to r	ealize	9		5	5	
				£1435	<b>2</b>	3
					<u> </u>	

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 13, 1938.

SHEET

F. N. ASHCROFT, Hon. Treasurer.

# YEAR ENDING DECEMBER 31, 1937

PAYMENTS		£	8.	d.	£	8.	d.
To Investments as per last Account— 1. 975 32% War Loan 1952 and after, Inse	wihod						
Stock, valued by Brokers at $\pm 992$ 1.	$\sim 3d$						
(1013%), at cost		1128	15	0			
2. £10 4s. 8d. 3% Conversion Loan 194	8-52,						
Inscribed Stock, valued by Broker							
£10 $\&$ s. 6d. (101 $\frac{13}{18}$ %), at cost	:	10	10	0			
3. £26 14s. 0d. Metropolitan Water Board 39							
Stock, Inscribed, valued by Broke	rs at		-	•			
£24 0s. 7d. (90%), at cost	-	20					
		1165	10	0			
Investment made during year. Purchas							
£15 15s. 4d. 3% Conversion Loan 1948-52							
scribed Stock, valued by Brokers at $\pounds 16 0s$		15	10	0			
$(101 \frac{13}{13} \%)$ , at cost	•	19	19	0	1181	â	6
Income transferred to General Purposes Account	ht.				35	-	9
mesme sumsterred to ceneral i urposes metodi		•	•				
					£1216	14	3
Examined and compared with vouchers and for	ind co	rrect.				••••	÷
- F. A.	BANN	ISTE	R		1.		
GILE	ERT	WILSO	) NC	А	uditors		
January 13, 1938. F. N.	ASHO	ROFI	, н	on.	Treasu	Irer.	

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2. Meteorites and photographs of meteorites from Texas, Kansas. Nebraska, and New Mexico, illustrating finds made by Dr. H. H. Nininger in the last few years (Mr. F. W. Cassirer).

3. Minerals from Castle-au-Dinas mine, Cornwall, including cassiterite, topaz, arsenopyrite, native bismuth, turquoise, scorodite on wavellite, and russellite; also bismuthinite from St. Wenn, and beryl and cassiterite from St. Michael's Mount, Cornwall (Mr. Arthur Russell).

4. A contact model of the crystal-structure of muscovite (Mineral Department, British Museum).

5. A device for automatically counting the numbers, up to six different kinds, of mineral grains while their diameters are being measured by a recording micrometer (Dr. A. T. J. Dollar).

The following papers were then read and discussed:-

1. Scawtite pseudomorphs after spurrite at Scawt Hill, Co. Antrim: by Prof. C. E. Tilley (vol. 25, p. 38).

2. The occurrence of acmite in the riebeckite-microgranite of Mynydd Mawr, Caernarvonshire: by Dr. S. R. Nockolds (vol. 25, p. 35).

3. The composition and paragenesis of the hornblendes of the Glen Tilt complex, Perthshire: by Dr. W. A. Deer.

4. Russellite, a new British mineral: by Mr. F. A. Bannister and Dr. M. H. Hey.

5. A re-examination of cliftonite: by Dr. M. H. Hey.