

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY
(1957)

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 24 January 1957, at 3.15 p.m.*

Prof. L. HAWKES, President, in the Chair.

THE following were provisionally elected Ordinary Members of the Society: Paul Bartholomé, Tom Neville Clifford, Knut Sigurdson Heier, Vincent George Hill, Richard St. John Lambert, Charles Geoffrey Nicholson, Brian Simpson, Zaki Mohamed Zaghoul.

The deaths of Prof. Edward de Courcy Clarke, Dr. Frederick Arthur Henson, and Prof. Arthur Leonard Parsons were reported.

The resignations of Prof. P. G. H. Boswell, Mr. P. G. Cooray, Mr. D. B. Honeyborne, Mrs. J. M. Beck, and Mr. H. S. Peiser were accepted.

Reports were received from the Treasurer, the Editors, the Clay Minerals Group, and the Editorial Committee on Mineralogical Abstracts.

The publication of the Mineralogical Magazine by the Society and the direct sale of all publications from the Society's office were reported.

The nomination of a representative, when requested, to the Committee of the 5th Congress of the International Union of Crystallography, to be held in Cambridge, 1960, was agreed.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 24 January 1957, at 5 p.m.*

Prof. L. HAWKES, President, in the Chair.

Forty Members and four Visitors were present.

The elections of eight Ordinary Members of the Society provisionally made by the Council were confirmed.

The following papers were read and discussed:

1. The nature of carphosiderite and allied basic sulphates of iron: by Dr. A. A. Moss (vol. 31, p. 407).

2. The illite in Old Red Sandstone soils and sediments: by Dr. R. C. Mackenzie (vol. 31, p. 681).

3. The paragenesis of garnet in charnockite, enderbite, and related granulites: by Dr. R. A. Howie and Dr. A. P. Subramaniam (vol. 31, p. 565).

4. Accurate determination of the cell dimensions of magnetite: by Dr. E. Z. Basta (vol. 31, p. 431).

5. Titanomagnetites from a differentiated teschenite sill: by Dr. J. F. G. Wilkinson (vol. 31, p. 443).

The following papers were taken as read:

1. An unusual cassiterite paragenesis and its genetic implications: by Dr. L. J. Lawrence (vol. 31, p. 402).

2. The normal-pattern finder: an aid to stereographic projection: by Mr. G. Boom (communicated by Dr. M. H. Hey) (vol. 31, p. 358).

3. Abraded pyrite crystals from the Witwatersrand gold mines: by Dr. J. J. Frankel (vol. 31, p. 392).

4. Dickite from sandstones in northern England and North Wales: by Dr. F. Smithson and Mr. G. Brown (vol. 31, p. 381).

5. Pyrosmalite in the Broken Hill lode, N.S.W.: by Dr. F. L. Stillwell and Dr. J. McAndrew (vol. 31, p. 371).

6. Heating experiments on amazonite: by Prof. Ivar Oftedal (vol. 31, p. 417).

7. The morphology of the Unter-Rupsroth montmorillonite: by Mr. H. L. Nixon and Mr. A. H. Weir (vol. 31, p. 413).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 28 March 1957, at 3.15 p.m.*

Prof. L. HAWKES, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: David Murray Boyd, Fred A. Hildebrand, Juan Luis Martin-Vivaldi, Bryan Oliver Payne, William Antony Swithin Sarjeant, Brian John Skinner, John Bucknall Wright.

The deaths of Dr. Paul Grodzinski, Dr. Robert Campbell, and Prof. Frantisek Slavík were reported.

The resignation of Prof. H. Deuel was accepted.

The names of Mr. R. S. Long, Prof. S. B. McCaleb, Mr. A. J. C. Rodrigues, Mr. K. E. Seal, Mr. A. L. Silfverberg, and Dr. H. Towers were removed from the list of members for non-payment of subscriptions.

Reports were received from the Treasurer and the Editors, and from the Clay Minerals Group. The Treasurer presented the audited accounts for 1956, which were approved (vol. 31, pp. lx-lxiii).

Exemption from rates on the offices at 41 Queen's Gate, London, S.W. 7, had been claimed under the Scientific Societies Act, 1843.

Nominations for election to the Council were considered. The following were due to retire: President, Prof. L. Hawkes; Ordinary Members of Council, Mr. L. A. A. Thomas, Dr. M. K. Wells, Mr. S. H. U. Bowie, and Mr. B. W. Anderson. The following were proposed for election at the Anniversary Meeting in November 1957: President, Prof. C. E. Tilley; Ordinary Members of Council, Dr. R. J. W. McLaughlin, Dr. H. I. Drever, Mr. P. G. Embrey, and Dr. G. M. Brown.

The resignation of Miss M. S. Stapleton, Publications Clerk, was reported.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 28 March 1957, at 5 p.m.*

Prof. L. HAWKES, President, in the Chair.

Thirty-three Members and four Visitors were present.

The elections of seven Ordinary Members of the Society provisionally made by the Council were confirmed.

The following papers were read and discussed:

1. The photoelectric measurement of reflectivity: by Mr. S. H. U. Bowie (read by Mr. J. E. T. Horne) (vol. 31, p. 476).

2. Direct measurement of standard reflectances with the microphotometer: by Dr. A. F. Hallimond (vol. 31, p. 487).

3. Pyroxenes from the early and middle stages of fractionation of the Skaergaard intrusion, East Greenland: by Dr. G. M. Brown, with chemical analyses by Dr. E. A. Vincent and Dr. P. E. Brown (vol. 31, p. 511).

4. Zeophyllite: by Dr. R. A. Chalmers, Miss L. S. Dent, and Dr. H. F. W. Taylor (vol. 31, p. 726).

5. The powder patterns and lattice parameters of plagioclase feldspars II: by Dr. J. V. Smith and Dr. P. Gay (vol. 31, p. 744).

The following paper was taken as read:

1. Rhodesite, a new mineral from Bultfontein mine, Kimberley, South Africa: by Prof. E. D. Mountain (vol. 31, p. 607).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 6 June 1957, at 3.15 p.m.*

Prof. L. HAWKES, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Arthur Benson Cummins, Pow-Foong Fan, Claude Jean Guy Guillemin, Donald Richard Lewis, Karel Padéra, Irene Marianne Michaelis de Saenz, Julius Schlocker.

The death of Dr. Samuel James Shand was reported.

The reinstatement of Prof. S. B. McCaleb was agreed.

Reports were received from the Treasurer and the Editors, the Editorial Committee on Mineralogical Abstracts, and the Clay Minerals Group.

The Council agreed to the increased subscription rate of 15s. for the Clay Minerals Bulletin, and the charge of 10s. for single copies and back numbers, commencing 1958.

The General Secretary was nominated by the Council as delegate to a meeting to be held in Montreal in July, to consider the formation of an International Mineralogical Association.

The Council approved the presentation of vols. 30 and 31 (to end of 1957) of the Mineralogical Magazine to the Hungarian National Museum to replenish their destroyed library.

The appointment of Miss A. S. Rotherham as Publications Clerk was reported.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 6 June 1957, at 5 p.m.*

Prof. L. HAWKES, President, in the Chair.

Thirty-six Members and four Visitors were present.

The elections of seven Ordinary Members of the Society provisionally made by the Council were confirmed.

The following exhibit was shown:

Ballotini for viewing interference figures of small crystals: by Dr. A. T. J. Dollar.

The following papers were read and discussed:

1. Götzenite and combeite, two new silicates from the Belgian Congo: by Prof. Th. G. Sahama and Mr. Kai Hytönen (vol. 31, p. 503).

2. Isokite and triplite from Bohemia: by Dr. D. Jerome Fisher (vol. 31, p. 587).

3. Heating experiments on some natural titaniferous magnetites: by Dr. E. A. Vincent, Mr. J. B. Wright, Prof. R. Chevallier, and Mlle Suzanne Mathieu (vol. 31, p. 624).

4. An extinction curve method for the universal stage: by Mr. N. Joel and Dr. I. D. Muir (vol. 31, pp. 860 and 878).

The following paper was taken as read:

Measurement and distribution of zircons in some granitic rocks of magmatic origin: by Dr. L. H. Larsen and Dr. A. Poldevaart (vol. 31, p. 544).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 7 November 1957, at 3 p.m.*

Prof. L. HAWKES, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Joyce Marjorie Bond, Bruno Ernst Joseph Brehler, Kevin Charles Burke, Barry Conrad Milne Butler, Charles Gardner Dodd, Wilfred Allan Elders, Charles Henry Emeleus, Katharine Selden Kniskern Mather, Mosobalaje Olaloye Oyawoye, Guy Perrault, Frank Steeley Smith.

The death of Prof. W. N. Benson, Honorary Member, was reported.

The resignations of Mr. H. G. Dines, Mr. M. D. S. Lewis, Mr. G. S. Mockler, Mr. G. M. Stockley, and Prof. L. Weber were accepted.

Reports were received from the Treasurer and the Editors, the Clay Minerals Group, and the Editorial Committee on Mineralogical Abstracts.

The Council expressed appreciation of the Secretary's successful efforts in promoting agreement between the British and American societies regarding the future joint production of Mineralogical Abstracts.

A report was received from the Secretary of his attendance at a

meeting of the (Provisional) International Mineralogical Association in Montreal, in July.

The resignation of Miss A. S. Rotherham as Publications Clerk was reported.

Dr. W. Campbell Smith was nominated to serve on the Geological Committee of The Nature Conservancy, the first meeting of which would be held on 14 November 1957.

Dr. M. K. Wells and Mr. R. K. Harrison were appointed auditors of the Society's accounts for the year ending 31 December 1957.

The Secretary read the draft of the Annual Report of the Council for the past year, and, with minor alterations, this was approved for presentation at the ensuing Anniversary Meeting.

GENERAL (ANNIVERSARY) MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London, W., 7 November 1957, at 5 p.m.*

Prof. L. HAWKES, President, in the Chair.

Forty-eight Members and five Visitors were present.

The elections of eleven Ordinary Members of the Society provisionally made by the Council were confirmed.

The General Secretary read the following:

ANNUAL REPORT OF THE COUNCIL FOR 1956-7

Membership.—The total membership on 31 October 1957 was 637 against 629 on 31 October 1956. Thirty-four new members have been elected during the year, nine members have resigned, and the names of five members have been removed on account of arrears of subscription. The Society has lost by death ten Ordinary and two Honorary Members. On 31 October 1957 the membership consisted of five Honorary Members and 632 Ordinary Members, of whom 65 are Life Members: 287 members are also members of the Clay Minerals Group.

Meetings.—The total attendance at the four general meetings held during the session 1956-7 was 157 members and 20 guests, giving an average of 44 per meeting. At these meetings 18 papers have been read; 11 have been taken as read, and 3 exhibits have been shown.

At two meetings of the Clay Minerals Group, held in London and Oxford respectively, 18 papers were read: the average attendance was 40 per meeting.

Publications.—Three numbers of the Mineralogical Magazine have been issued during the year, and the fourth (September 1957) is expected shortly. The four numbers 235-8 contain Proceedings (15 pages), 32 papers, and 17 short communications in 324 pages, with 8 plates and 85 text-figures; and 1,150 abstracts, 64 book reviews in 328 pages.

Three numbers (15-17) of the Clay Minerals Bulletin have been issued during the

year. The annual subscription for two issues will be raised to 15s. from 1 January 1958.

A new monograph on clay minerals was published in March, entitled, 'The differential thermal investigation of clays', and edited by R. C. Mackenzie.

Financial.—The accounts for the calendar year 1956 are published in the June (1957) number of the Magazine. The excess of assets (exclusive of the Society's library and stock of publications) over liabilities at 31 December 1956 was £7,635. 15s. against £7,429. 9s. 9d. at the close of 1955.

During 1956 income from the General Fund exceeded expenditure by £71. 17s. In this, the first complete year of the Society's occupation of its new premises, general office expenses, including clerical assistance, amounted to £1,142. 1s. 1d.

The two numbers of the Mineralogical Magazine issued since the beginning of 1957 have cost £1,406. 3s. 9d. (inclusive of authors' reprints). The increased cost over the corresponding two numbers for 1956 is partly due to an increase of size (351 pages against 318), but printing costs have increased by approximately 10 per cent. Sales of the Clay Minerals Group monograph on differential thermal analysis have amounted to £657. 7s. 7d. Since the last Annual Report was presented grants to the value of £300 have been received from the Royal Society (Parliamentary Grant-in-aid for Scientific Publications) towards the cost of publication of the Magazine and Abstracts and £400 towards the cost of production of a revised edition of the monograph on X-ray identification and crystal structures of clay minerals.

The balances at the Society's Bankers and in the Post Office Savings Bank on 31 October 1957 were: General Fund £3,545. 10s. 9d., Miers Memorial Fund £125. 10s. 2d.

General.—i. *Mineralogical Abstracts*: Negotiations have been proceeding during the year with the Mineralogical Society of America with the object of increasing the size and coverage of Mineralogical Abstracts. It is hoped that an arrangement will be concluded for the joint production of the Abstracts by the two Societies from the commencement of 1959. A full report will be presented to the Society when arrangements have been completed.

ii. *International Mineralogical Association*: A meeting of delegates of Mineralogical Societies of national status was held in Montreal during the International Crystallographical Congress in July 1957 to consider the formation of the International Mineralogical Association. It was agreed that such an Association was desirable; a meeting for its formal inauguration was arranged for Madrid in the Spring of 1958.

On the proposal of Dr. A. F. Hallimond, seconded by Mr. G. E. Howling, the adoption of the Annual Report was carried unanimously.

A vote of thanks to the Geological Society for the use of the apartments during the past session was proposed by Prof. K. C. Dunham, seconded by Dr. A. T. J. Dollar, and carried with acclamation.

The President read the following list of Officers and Council elected for the session 1957-8 in accordance with by-law 20:

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

Vice-Presidents. Prof. L. R. Wager, M.A., ScD., B.Sc., F.R.S.; Dr. A. K. Wells, D.Sc., F.G.S.

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MINERALOGICAL INCOME AND EXPENDITURE ACCOUNT

A. GENERAL

1956 £	INCOME	£ s. d.	£ s. d.
	Members' subscriptions—		
	Annual subscriptions	1139 1 3	
	Entrance fees	33 0 0	
1138	<i>Mineralogical Magazine and Abstracts—</i>	1172 1 3	
	Advertisement fees	79 3 6	
	Sales	3896 18 6	
2123	Investment revenue—	3976 2 0	
	Interest on investments	207 14 0	
	Post Office Savings Bank interest	56 16 10	
256	Grant from Royal Society (Parliamentary Grant-in-aid for scientific publications)	264 10 10	
550	Clay Minerals Group—		
	<i>Clay Minerals Bulletin:</i>		
	Subscriptions	94 13 8	
	Sales, including authors' reprints	201 5 7	
248	Clay Minerals Monographs—	295 19 3	
	Sales: <i>X-ray Identification and Crystal Structures of Clay Minerals</i>	5 15 4	
7	<i>The Differential Thermal Investigation of Clays</i>	763 14 5	
16	<i>Glossary of Clay Trade Names, sales</i>	769 9 9	
-	Interest on Bank Account (Cambridge)	12 5 6	
-	Transfer from Publications Fund	1000 0 0	
-	Balance, being excess of expenditure over income for the year	175 4 2	
<u>£4338</u>		£7967 6 7	

B. MIERS

£		£ s. d.
18	Investment revenue	17 13 2
1	Sundry revenue	1 1 0
<u>£19</u>		£18 14 2

SOCIETY

FOR THE YEAR ENDED 31 DECEMBER 1957

FUND

1956 £	EXPENDITURE	£ s. d.	£ s. d.
	<i>Mineralogical Magazine and Abstracts—</i>		
	Nos. 236-9:		
	Printing	2561 11 10	
	Illustrations	163 18 4	
	Authors' reprints	172 0 3	
	Distribution to members	86 1 7	
	„ „ subscribers	111 3 6	
2204			3094 15 6
78	Reprinting Magazines Nos. 169, 170, 174, 179, 192		565 12 9
	Editorial expenses—		
	Magazine editor	57 18 5	
232	Abstracts editor	230 17 9	
	Meeting expenses—		
	Notices of meetings	86 6 8	
	General expenses in connexion with meetings	26 8 0	
110			112 14 8
	General expenses—		
	Office rental and house expenses	404 16 11	
	Clerical assistance	991 1 6	
	Printing and stationery	94 3 2	
	Postage and telephone	123 8 10	
	Sundry office expenses	30 16 2	
1142			1644 6 7
228	<i>Miscellaneous charges</i>		— — —
	<i>Clay Minerals Group—</i>		
	<i>Clay Minerals Bulletin:</i>		
	Printing Bulletins 16 and 17	200 16 6	
	Authors' reprints Bulletin 15	27 10 0	
203	Editorial expenses	15 10 11	
	Monograph on <i>The Differential Thermal Investigation of Clays:</i>		
	Printing and binding Monograph	1917 0 0	
—	Cardboard cartons for distribution of Monograph	24 10 7	
			1941 10 7
	General expenses:		
	Meeting expenses	19 6 0	
	Office expenses	56 6 11	
69			75 12 11
72	<i>Balance, being excess of income over expenditure for the year</i>		— — —
<u>£4338</u>			<u>£7967 6 7</u>

MEMORIAL FUND

£		£ s. d.
	Bank charges	2 8
19	<i>Balance, being excess of income over expenditure for the year</i>	18 11 6
<u>£19</u>		<u>18 14 2</u>

JAMES H. TAYLOR, Hon. Treasurer.

M. K. WELLS }
R. K. HARRISON } Auditors

**MINERALOGICAL
BALANCE SHEET AS AT**

A. GENERAL

1956 £	LIABILITIES	£ s. d.	£ s. d.	£ s. d.
	Fund Account—			
	Balance per Balance Sheet at 31 December 1956	7080 14 1		
	Add Composition Fees received	119 18 4		
		7200 12 5		
	Less Depreciation on office furniture and equip- ment	57 10 9		
	Excess of expenditure over income for year ended 31 December 1957	175 4 2		
		232 14 11		
7081				6967 17 6
2478	Publications Fund			1477 13 9
	Subscriptions, &c., received in advance—			
	Members' subscriptions and entrance fees		92 19 5	
	Subscriptions to <i>Clay Minerals Bulletin</i>		2 0 0	
94			94 19 5	
	Sundry creditors—			
	Oxford University Press for Magazine No. 239		677 11 6	
	Royal Entomological Society for house expenses		39 15 6	
	Editors for sundry editorial expenses		95 3 0	
676			812 10 0	

£10329

£9353 0 8

B. MIERS

£	Fund Account—	£ s. d.	£ s. d.
	Balance per Balance Sheet at 31 December 1956		555 0 11
	Add Excess of income over expenditure for the year ended 31 December 1957		18 11 6
555			573 12 5

£555

£573 12 5

SOCIETY

31 DECEMBER 1957

FUND

1956 £	ASSETS	£ s. d.	£ s. d.
	Office furniture and equipment—		
	Original cost	575 7 5	
	Less depreciation	211 10 8	
421		-----	363 16 9
	Investments (at cost or as valued at 31 December 1951)—		
	£2232. 9s. 3½% War Stock 1952	1856 8 6	
	£753. 12s. 11d. 4% Consolidated Stock 1957	694 4 9	
	£606. 4s. 6d. 4% Funding Stock 1960-90	598 5 0	
	£250 3% Savings Bonds 1960 70	216 17 6	
	£1013. 9s. 6d. 3% Savings Bonds 1965-75	916 7 0	
	£100 3% British Transport Stock 1978-88	77 0 0	
	£275 2½% Consolidated Stock	169 2 6	
	£261. 12s. 6d. 3½% Treasury Stock 1977-80	244 8 3	
	£850 4½% British Electricity Stock 1967-69	810 12 5	
5537		-----	5583 5 11
	Note:—The total market value of the above investments at 31 December 1957 was £4518. 14s. 8d.		
	Deposits—		
2857	Balance with Post Office Savings Bank		1913 17 10
	Subscriptions, &c., in arrears—		
	Members' subscriptions	44 8 1	
106	Subscriptions to <i>Clay Minerals Bulletin</i>	6 0 0	
	Sundry debtors	-----	50 8 1
	Authors for reprints from <i>Clay Minerals Bulletin</i>	14 10 0	
	Purchasers of <i>Clay Minerals Bulletin</i>	28 15 0	
986		-----	43 5 0
	Cash—		
	Coutts & Co., London	838 5 2	
	Barclays Bank, Harpenden	452 4 10	
	Cambridge & District Trustee Savings Bank	77 14 2	
	Cash in hand, London	20 0 0	
	" " Cambridge (Abstracts Editor)	10 0 0	
	" " Harpenden	2 11	
422		-----	1398 7 1
<u>£10329</u>			<u>£9353 0 8</u>

Note:—The value of the Society's library and stock of publications is not included in the above assets.

MEMORIAL FUND

£		£ s. d.
	Investments (at cost)—	
439	£504. 17s. 4d. 3½% War Stock 1952	439 7 0
	Note:—The total market value of the above investment at 31 December 1957 was £318. 1s. 3d.	
116	Cash—Coutts & Co., London	134 5 5
<u>£555</u>		<u>£573 12 5</u>

JAMES H. TAYLOR, Hon. Treasurer.

M. K. WELLS }
R. K. HARRISON } Auditors
13 March 1958

Treasurer. Prof. J. H. Taylor, M.A., B.Sc., Ph.D., F.G.S.

General Secretary. Dr. G. F. Claringbull, B.Sc., Ph.D., A.Inst.P., F.G.S.

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

Editor of the Journal. Dr. M. H. Hey, M.A., D.Sc.

Editor of Mineralogical Abstracts. Dr. N. F. M. Henry, B.Sc., M.A., Ph.D., F.G.S.

Ordinary Members of Council

Dr. G. M. Brown, M.A., D.Phil., B.Sc., F.G.S.	Dr. A. F. Seager, B.Sc., Ph.D., A.K.C., F.G.S.
Prof. W. A. Deer, M.Sc., Ph.D., F.G.S.	Prof. A. Stuart, M.Sc., F.G.S., F.R.M.S.
Dr. H. I. Drever, B.Sc., Ph.D., F.R.S.E.	Dr. W. H. Taylor, M.A., Ph.D., D.Sc., F.Inst.P.
Mr. P. G. Embrey, M.A., B.Sc., A.R.I.C.	
Mr. J. E. T. Horne, M.A., F.G.S.	Dr. E. A. Vincent, M.A., B.Sc., Ph.D., F.R.I.C., F.G.S.
Dr. R. C. Mackenzie, B.Sc., Ph.D., A.R.I.C.	Prof. D. Williams, D.Sc., Ph.D., B.E., M.I.M.M., F.G.S.
Dr. R. J. W. McLaughlin, M.Sc., Ph.D.	

The retiring President, Prof. L. Hawkes, in welcoming Prof. Tilley to the Chair, thanked the Officers of the Society for their help during his period of office, and expressed the hope that Prof. Tilley's presidency would be a happy one.

Prof. Tilley, in reply, thanked the Society for his election and expressed appreciation of Prof. Hawkes's guidance of the Society during the past three years. He then proposed a vote of thanks to the retiring President and Ordinary Members of the Council which was carried with acclamation.

The following exhibits were shown:

1. Some minerals new to Britain: by Mr. A. W. G. Kingsbury.
2. A high-temperature microscope furnace for petrological analysis employing a thermocouple as heater and thermometer combined: by Dr. A. T. J. Dollar and Mr. B. C. Hicks.

The following papers were read:

1. Cornubite ($\text{Cu}_5(\text{AsO}_4)_2(\text{OH})_4$), a new mineral from Cornwall: by Dr. G. F. Claringbull, Dr. M. H. Hey, and Sir Arthur Russell.
2. Rare earths in some niobate-tantalates: by Dr. J. R. Butler (vol. 31, p. 763).
3. Plagioclases from the Juvinas meteorite and from allivalite from the Isle of Rhum: by Mr. P. M. Game (vol. 31, p. 656).
4. The alteration of pyrochlore to columbite in carbonatites in Tanganyika: by Mr. T. C. James and Mr. Duncan McKie.
5. Third supplementary list of British minerals: by Dr. L. J. Spencer (vol. 31, p. 787).
6. On the unit cell of synthetic and natural syngenite: by Dr. E. Aruja.

The following papers were taken as read:

1. Some zoned skarns from granite-marble contacts near Puyvalador, in the Quérigut area, eastern Pyrenees, and their petrogenesis: by Dr. W. A. Watters (vol. 31, p. 703).
2. Sapphire-bearing rocks from Antarctica: by Dr. E. R. Segnit (vol. 31, p. 690).