

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY
(1956)

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 26 January 1956, at 3 p.m.*

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

The following were provisionally elected Ordinary Members of the Society: Keith John Ackermann, Nicolas Aguilera-Herrera, Douglas Colin Davidson, Colin Stewart Exley, Anthony Marshall Freke, Raymond Edmond Galopin, Charles James Hughes, Solomon Kaiman, Heinrich Martin Köster, Robert Douglas Mackay, Leonard Gene Schultz, Kenneth Harold Wheatley, and John Frederick George Wilkinson.

The deaths of Dr. Edmondson Spencer, Dr. George Davenport Osborne, and Col. Nicolas Timothy Belaiew were reported.

The resignations of Mr. J. G. C. Lecch, Dr. A. M. B. Douglas, Mr. R. J. Davies, Mr. C. A. Fothergill, Mr. E. W. Taylor, and Mr. A. W. Scoble were accepted.

Reports were received from the Treasurer and the Editors, and from the Clay Minerals Group.

The revised constitution adopted at the Annual General Meeting of the Clay Minerals Group (see below, pp. lxxv-lxxviii) was approved.

SPECIAL GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 26 January 1956, at 5 p.m.*

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

Forty-three Members were present.

Minor alterations to the Bye-laws, to make provision for more than one Editor to hold office in the Society, were adopted. These amendments are incorporated in the Bye-laws as printed on pp. x and xi of this volume.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 26 January 1956, at 5.10 p.m.*

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

Forty-three Members and five Visitors were present.

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

The following exhibit was shown:

A new design of holder for thin rock section grinding by means of diamond impregnated wheels: by the Department of Mineralogy, British Museum (Natural History).

The following papers were read and discussed:

1. Determination of the composition of kalsilites by an X-ray method: by Prof. Th. G. Sahama, Dr. K. J. Neuvonen, and Mr. Kai Hytönen (vol. 31, p. 200).

2. Collophane from the chalk: by Mr. G. Brown and Mr. C. D. Ollier (vol. 31, p. 339).

3. The structures of the plagioclase feldspars. VII. The heat treatment of intermediate plagioclases: by Dr. P. Gay and Dr. M. G. Bown (vol. 31, p. 306).

4. Replacements involving early carnallite in the potassium-bearing evaporites of Yorkshire: by Dr. F. H. Stewart (vol. 31, p. 127).

5. The Eskdalemuir tholeiite and its contribution to an understanding of tholeiite genesis: by Dr. R. B. Elliott (vol. 31, p. 245).

The following papers were taken as read:

1. A phase-contrast microscopic study of the surface structure of blende crystals: by Dr. A. R. Verma (communicated by the General Secretary) (vol. 31, p. 136).

2. Subsolidus data for the join $\text{Ca}_2\text{SiO}_4\text{-CaMgSiO}_4$ and the stability of merwinite: by Mrs. Della M. Roy (communicated by Dr. M. H. Hey) (vol. 31, p. 187).

3. Staurolite twinning: by Dr. V. J. Hurst, Prof. J. D. H. Donnay, and Dr. G. Donnay (vol. 31, p. 145).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Royal Entomological Society,
41 Queen's Gate, London S.W. 7, 22 March 1956, at 3 p.m.*

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

The following were provisionally elected Ordinary Members of the Society: Wolf von Engelhardt, Robert Alexander van Nordstrand, Stanley Leonard Toyn.

The deaths of Rev. Mark Fletcher, Dr. Arthur William Groves, Prof. Heinrich Ferdinand Huttenlocher, and Prof. Duncan Leitch were reported.

The resignations of Miss K. R. Farquharson, Dr. T. N. Jewitt, and Mr. W. P. Simmons were accepted.

Reports were received from the Treasurer and the Editors, and from the Clay Minerals Group. The Treasurer presented the audited accounts for 1955, which were approved (vol. 31, pp. xlvi-xlix).

The Society's great indebtedness and thanks to Dr. L. J. Spencer for his inestimable service as Editor of the Mineralogical Magazine for 55 years was voted to be recorded.

Nominations for election to the Council were considered. The following were due to retire: Vice-Presidents, Dr. F. A. Bannister and Dr. F. Dixey; Ordinary Members of Council, Mr. T. Deans, Prof. K. C. Dunham, Mr. L. A. A. Thomas, and Dr. M. K. Wells. In view of Dr. L. H. Ahrens's impending resignation and Dr. Hey's transfer to office of editor, it was agreed to retain Mr. L. A. A. Thomas and Dr. M. K. Wells as Ordinary Members of Council. The following were proposed for election at the Anniversary Meeting in November 1956: Vice-Presidents, Prof. L. R. Wager and Dr. A. K. Wells; Ordinary Members of Council, Mr. A. Stuart, Dr. A. F. Seager, Prof. D. Williams, and Dr. W. H. Taylor.

GENERAL MEETING

*Held in the Apartments of the Royal Entomological Society,
41 Queen's Gate, London S.W. 7, 22 March 1956, at 5 p.m.*

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

Thirty-five Members and five Visitors were present.

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

The following papers were read and discussed:

1. The quaternary section $\text{CaSiO}_3\text{-MgSiO}_3\text{-Al}_2\text{O}_3$: by Dr. E. R. Segnit (read by Dr. I. Muir) (vol. 31, p. 255).

2. A contribution to the mineralogy of chloritoid: by Mr. N. J. Snelling (communicated by Prof. W. A. Deer) (vol. 31, p. 469).

3. The habit of pyrite in some sedimentary rocks: by Dr. F. Smithson, with X-ray identifications by Mr. G. Brown (vol. 31, p. 314).

4. Studies in the mineralogy of the Sokumvatn region. 1. The origin, metamorphism, and metasomatism of the Bråtfjell dolomitic group: by Mr. K. J. Ackermann.

5. Manganese silicate minerals from Chikla, Bhandara District, India: by Mr. S. A. Bilgrami (vol. 31, p. 326).

The following paper was taken as read:

Synthesis of spurrite and the reaction wollastonite + calcite = spurrite + carbon dioxide: by Dr. O. F. Tuttle and Dr. R. I. Harker.

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 7 June 1956, at 3.15 p.m.*

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

The following were provisionally elected Ordinary Members of the Society: Jürg Walter Meyer, William Richard Morgan, Ivar Werner Oftedal, Yoshihiko Shimazaki, Robert Leland Smith.

The resignation of Mr. T. Eastwood was accepted.

The names of Mr. D. B. Grigsby and Dr. R. W. Grimshaw were removed from the list of members for non-payment of subscriptions.

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

The Council agreed, in view of available accommodation, to all the Society's publications being sold from the office; and authorized the securing of additional paid and honorary staff to deal with the sales arrangements.

Dr. M. H. Hey was nominated by the Council as delegate to the International Geological Congress in Mexico, to be held from 4 to 11 September 1956.

The Society's appreciation and thanks were conveyed to Sir Arthur and Lady Russell for their hospitality at a Garden Party at Swallowfield Park on 2 June.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 7 June 1956, at 5 p.m.*

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

Forty-three Members and four Visitors were present.

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

The following exhibit was shown:

A furnace for the study of ordered, irreversible, thermal transitions using a Weissenberg X-ray camera: by Miss L. S. Dent.

The following papers were read and discussed:

1. Kingite, a new hydrated aluminium phosphate from Robertstown, South Australia: by Dr. K. Norrish, Miss L. E. R. Rogers, and Mr. R. E. Shapter (vol. 31, p. 351).

2. Arsenopalladinite (Pd_3As), a new mineral from Itabira, Brazil: by Dr. G. F. Claringbull and Dr. M. H. Hey.

3. The composition and structure of botallackite from Cligga Head, Cornwall: by Mr. P. G. Embrey (with a note on the occurrence by Mr. A. W. G. Kingsbury).

4. A further examination of tobermorite from Loch Eynort, Scotland: by Mr. J. A. Gard and Dr. H. F. W. Taylor (vol. 31, p. 361).

5. Birnessite, a new manganese oxide mineral from Aberdeenshire, Scotland: by Dr. L. H. P. Jones and Dr. A. A. Milne (vol. 31, p. 283).

The following papers were taken as read:

1. An effect of depth of focus on micrometric analysis: by Dr. R. B. Elliott (vol. 31, p. 272).

2. The Holmes effect and the lower limit of modal analysis: by Dr. F. Chayes (vol. 31, p. 276).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 1 November 1956, at 3 p.m.*

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

The following were provisionally elected Ordinary Members of the Society: Anthony William Allen, Jose Luis Amoros, Sturges Williams Bailey, Lesley Scott Dent, Manuel Font-Altaba, Rui Ribeiro Franco, Arthur Orpen Fuller, Liselotte Heller, Gerhard William Leo, Frank Hall Skelding, Eugen Stumpfl, Alan Herbert Weir.

The deaths of Mr. T. C. F. Hall, Dr. H. S. Simons, Dr. N. L. Bowen, Dr. A. E. J. Vickers, and Mr. M. Wyatt were reported.

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

The appointments of Dr. A. F. Seager as Honorary Publications Manager, and Miss M. S. Stapleton as Publications Clerk, to deal with the sales of the Society's publications, were reported.

The Council approved the report that advertising in the 'Mineralogical Magazine' would in future be dealt with from the Society's office.

On his retirement as Secretary of the Clay Minerals Group, the Council expressed their thanks to Dr. R. C. Mackenzie for the services he had rendered to the Group.

Mr. C. S. Brown and Dr. M. K. Wells were appointed auditors of the Society's accounts for the year ending 31 December 1956.

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., 1 November 1956, at 5 p.m.*

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

Forty-eight Members and eight Visitors were present.

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

The General Secretary read the following:

ANNUAL REPORT OF THE COUNCIL FOR 1955-56

Membership.—The total membership on 31 October 1956 was 629 against 625 on 31 October 1955. Twenty-nine new members have been elected during the year, ten members have resigned, and the names of six members have been removed on account of arrears of subscription. The Society has lost by death nine Ordinary Members. On 31 October 1956 the membership consisted of seven Honorary Members and 622 Ordinary Members, of whom 65 are Life Members: 273 members are also members of the Clay Minerals Group.

Meetings.—The total attendance at the four general meetings held during the session 1955-56 was 180 members and 21 guests, giving an average of 50 per meeting. At these meetings 19 papers have been read; 7 have been taken as read, and 4 exhibits have been shown.

At two meetings of the Clay Minerals Group, in London and in Cambridge, 32 papers were read, and the average attendance was 50. Excursions to local laboratories were arranged in connexion with each meeting.

Editorship of the 'Mineralogical Magazine'.—The Council, deeply conscious of the enormous debt owed by the Society to him, reluctantly accepted the resignation of Dr. Leonard James Spencer, C.B.E., F.R.S., from the editorship of the 'Mineralogical Magazine' from 31 December 1955. Dr. Spencer had held this office in the Society for 55 years.

Publications.—Four numbers of the 'Mineralogical Magazine' (nos. 231–234) have been issued during the year. No. 231 was the index for volume XXX in 116 pages. The Bye-laws and List of Members (39 pages), Proceedings (12 pages), 24 papers in 282 pages with 10 plates and 46 text-figures, and 305 abstracts in 104 pages were contained in the succeeding three numbers.

The Clay Minerals Group monograph on differential thermal analysis is now complete; it is expected to be published before the end of the year. Arrangements are in hand for a second edition of the monograph on X-ray identification and crystal structures of clay minerals under the editorship of Mr. G. Brown.

Financial.—The accounts for the calendar year 1955 are published in the June (1956) number of the Magazine. The excess of assets (exclusive of the Society's library and stock of publications) over liabilities at 31 December 1955 was £7429. 9s. 9d., against £6057. 5s. 5d. at the close of 1954.

During 1955 income from the General Fund exceeded expenditure by £61. 17s. 8d. The Society's investments were augmented by the purchase of £537. 10s. 7d. 4 per cent. Consolidated Stock 1957 and £506. 4s. 6d. 4 per cent. Funding Stock 1960–90.

Three numbers of the 'Mineralogical Magazine' have been issued since the beginning of 1956, two of which have cost a total of £1183. 5s. 4d. (inclusive of authors' reprints). A grant of £150 towards the cost of publication of the Magazine has been received from the Royal Society (Parliamentary Grant-in-aid for Scientific Publications).

The balances at the Society's Bankers and in the Post Office Savings Bank on 31 October 1956 were: General Fund £3428. 16s. 2d., Miers Memorial Fund £106. 18s. 8d.

General.—With the resignation of Dr. Spencer from editorship, the Council decided that it was necessary to appoint separate editors for the 'Mineralogical Magazine' and for 'Mineralogical Abstracts', and the Bye-laws of the Society were accordingly modified at the Anniversary Meeting in November 1955.

A new Constitution of the Clay Minerals Group (see pp. lxxv–lxxviii) was adopted at the last Annual Business Meeting, and has since been approved by the Mineralogical Society; by it the Committee of the Group is elected annually instead of being co-opted, and in general the Management of the Group is brought more into line with that of the parent Society.

On the proposal of Mr. A. Stuart, seconded by Dr. P. Gray, 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 Mr. T. Deans, seconded by Dr. M. Bown, and carried with acclamation.

[continued on p. lxiv]

MINERALOGICAL INCOME AND EXPENDITURE ACCOUNT

A. GENERAL

1955 £	INCOME	£ s. d.	£ s. d.
	Members' subscriptions—		
	Annual subscriptions	1104 10 2	
	Entrance fees	33 0 0	
1089		1137 10 2	
	<i>Mineralogical Magazine</i> —		
	Advertisement fees	145 5 0	
	Sales	1978 1 11	
2640		2123 6 11	
	Investment revenue—		
	Interest on investments	189 14 0	
	Post Office Savings Bank Interest	66 12 6	
216		256 6 6	
	Grant from Royal Society (Parliamentary Grant-in-aid for scientific publications)	550 0 0	
	Clay Minerals Group—		
	<i>Clay Minerals Bulletin</i> : Subscriptions	77 2 10	
	Sales, including authors' reprints	170 18 2	
172		248 1 0	
227	Clay Minerals Monograph, sales	6 19 2	
12	<i>Glossary of Clay Trade Names</i> , sales	16 4 0	

£4356

£4338 7 9

B. MIERS

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

SOCIETY

FOR THE YEAR ENDED 31 DECEMBER 1956

FUND

1955	EXPENDITURE	£	s.	d.	£	s.	d.
	<i>Mineralogical Magazine—</i>						
	Nos. 232-235:						
	Printing	1831	15	11			
	Illustrations	131	19	1			
	Authors' reprints	182	6	8			
	Distribution	57	17	10			
1721					2203	19	6
	Reprinting Bye-laws and list of members					77	11
	Editorial Expenses:						
	Magazine editor	72	15	3			
	Abstracts editor	159	13	7			
133					232	8	10
	Meeting expenses—						
	Notices of meetings	82	11	1			
	General expenses in connexion with meetings	27	14	0			
107					110	5	1
	General expenses—						
	Office rental and house expenses	397	6	9			
	Clerical assistance	560	2	6			
	Printing and stationery	103	19	11			
	Postage and telephone	50	7	0			
	Sundry office expenses	30	4	11			
650					1142	1	1
	Miscellaneous charges—						
	Office furniture and equipment	£	s.	d.			
		115	16	9			
	Depreciation of above	57	10	9			
		173	7	6			
	Binding 34 volumes for library	44	5	0			
	Donation Wold Cottage Meteorite Monument Fund	10	0	0			
1337					227	12	6
	Clay Minerals Group—						
	<i>Clay Minerals Bulletin:</i>						
	Printing Bulletins 14 and 15	125	12	0			
	Authors' reprints Bulletins 11-14	77	19	6			
289					203	11	6
	General expenses:						
	Meeting expenses	13	11	4			
	Office expenses	55	9	5			
57					69	0	9
62	Balance, being excess of income over expenditure for the year				71	17	0
<u>£4356</u>					<u>£4338</u>	<u>7</u>	<u>9</u>

MEMORIAL FUND

	£	s.	d.
Bank charges		0	2
19 Balance, being excess of income over expenditure for the year	18	11	6
<u>£19</u>	<u>£18</u>	<u>14</u>	<u>2</u>

21 March 1957 C. S. BROWN } Auditors
M. K. WELLS }

JAMES H. TAYLOR, Hon. Treasurer

**MINERALOGICAL
BALANCE SHEET AS AT**

A. GENERAL

1955 £	LIABILITIES	£ s. d.	£ s. d.
	Fund Account—		
	Balance per Balance Sheet at 31 December 1955	6893 0 4	
	Add cost of furniture purchased	115 16 9	
	Add excess of income over expenditure for year ended 31 December 1956	71 17 0	
6893			7080 14 1
2000	Publications Fund		2477 13 9
	Subscriptions, &c., received in advance—		
	Members' subscriptions	89 14 6	
73	Subscriptions to <i>Clay Minerals Bulletin</i>	4 10 0	94 4 6
	Sundry creditors—		
	Oxford University Press for Magazine No. 235	473 15 5	
	A. Walker & Son, Ltd., for Bulletin No. 15	84 12 0	
	Royal Entomological Society for house expenses	37 13 0	
672	Editors for sundry editorial expenses	80 11 8	676 12 1

£9638

£10329 4 5

B. MIERS

536	Fund Account—	£ s. d.	£ s. d.
	Balance per Balance Sheet at 31 December 1955	536 9 5	
	Add Excess of income over expenditure for the year ended 31 December 1956	18 11 6	
536			555 0 11
<u>£536</u>			<u>£555 0 11</u>

SOCIETY

31 DECEMBER 1956

FUND

1955 £	ASSETS	£ s. d.	£ s. d.
	Office furniture and equipment—		
	Original cost	575 7 5	
	Less depreciation	153 19 11	
363		421 7 6	
	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	
	£800 4½ % British Electricity Stock 1967-69	764 4 0	
4773		5536 17 6	
	Note:—The total market value of the above investments at 31 December 1956, was £4785. 3s. 3d.		
	Deposits—		
2290	Balance with Post Office Savings Bank		2857 1 0
	Subscriptions, &c., in arrears—		
	Members' subscriptions and entrance fees	94 11 0	
	Subscriptions to <i>Clay Minerals Bulletin</i>	11 10 0	
119		106 1 0	
	Sundry debtors—		
	Oxford University Press for sales and advertisement fees	917 17 8	
	Authors for reprints from <i>Clay Minerals Bulletin</i>	39 7 0	
	Purchasers of <i>Clay Minerals Bulletin</i>	28 13 10	
1524		985 18 6	
	Cash—		
	Coutts & Co., London	87 10 5	
	Barclays Bank, Harpenden	234 16 9	
	Cambridge & District Trustee Savings Bank	63 14 10	
	Cash in hand, London	20 0 0	
	„ Cambridge (Abstracts Editor)	10 0 0	
	„ „ (Secretary, Clay Minerals Group)	1 17 3	
	„ Harpenden (Treasurer, Clay Minerals Group)	3 19 8	
569		421 18 11	
£9638		£10329 4 5	

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

MEMORIAL FUND

		£ s. d.	£ 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 1956 was £355. 18s. 7d.		
97	Cash—Coutts & Co., London		115 13 11
£536		£555 0 11	

21 March 1957. C. S. BROWN } Auditors
M. K. WELLS }

JAMES H. TAYLOR, Hon. Treasurer.

The President read the following list of Officers and Council elected for the session 1956–57 in accordance with Bye-law 20:

President. Prof. L. Hawkes, D.Sc., F.R.S.

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

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

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

Foreign Secretary. Dr. L. J. Spencer, C.B.E., 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

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

Mr. A. Stuart, M.Sc., F.G.S., F.R.M.S.

Mr. S. H. U. Bowie, B.Sc.

Dr. W. H. Taylor, M.A., Ph.D., D.Sc.,

Prof. W. A. Deer, M.Sc., Ph.D., F.G.S.

F.Inst.P.

Mr. J. E. T. Horne, M.A., F.G.S.

Mr. L. A. A. Thomas, B.Sc., F.Inst.P.

Dr. R. C. Mackenzie, B.Sc., Ph.D.,
A.R.I.C.

Dr. E. A. Vincent, M.A., B.Sc., Ph.D.,
A.R.I.C., F.G.S.

Dr. A. F. Seager, B.Sc., Ph.D., A.K.C.,
F.G.S.

Dr. M. K. Wells, M.Sc., Ph.D., F.G.S.
Prof. D. Williams, D.Sc., Ph.D., B.E.,
M.I.M.M., F.G.S.

A vote of thanks to the retiring Members of Council was proposed by Dr. J. Zussman, and seconded by Dr. P. A. Sabine.

The following exhibits were shown:

1. A point counter for the microscope, consisting of a dial counter and special traversing stage with automatic recording: by Mr. I. H. Ford.

2. An occurrence of kasolite and pitchblende at Tyndrum, Perthshire: by Dr. R. K. Harrison.

The following papers were read and discussed:

1. Painite, a new mineral from Mogok, Burma: by Dr. G. F. Claringbull, Dr. M. H. Hey, and Mr. C. J. Payne (vol. 31, p. 420).

2. An X-ray and electron-microscope study of rhodesite: by Mr. J. A. Gard and Dr. H. F. W. Taylor.

3. An X-ray investigation of some rare-earth silicates: cerite, lessingite, beckelite, britholite, and stillwellite: by Dr. P. Gay (vol. 31, p. 455).

4. Saponite from Allt Ribhein, Fiskavaig, Skye: by Dr. R. C. Mackenzie, with electron microscope data by Mr. J. A. Gard.

The following papers were taken as read:

1. Sepiolite at a locality in the Keuper Marl of the Midlands: by Mr. P. S. Keeling (communicated by Mr. D. A. Holdridge) (vol. 31, p. 328).

2. A case of epitaxial replacement: by Prof. I. Kostov (vol. 31, p. 333).

CONSTITUTION OF CLAY MINERALS GROUP

(Revised at the Annual General Meeting, 1956)

Name:

1. The name of this Group shall be 'The Clay Minerals Group of the Mineralogical Society'.

Aims:

2. The aim of the Group shall be to further the study of clay minerals and allied substances:

(a) by facilitating the exchange of information between members of the Group, and, in general, all those interested in clay minerals;

(b) by providing facilities for the reading and discussion of papers on the methods and results of research on clay minerals and allied topics;

(c) by stimulating interest in clay mineralogy;

(d) by encouraging the practical applications of clay mineral research;

(e) by such other means as the Committee and the Group may from time to time think opportune, subject to the approval of the Council of the Society.

Membership:

3. Only members and honorary members of the Society are eligible for membership of the Group.

4. All those eligible for membership of the Group may become members, without additional payment, by written application to the Secretary of the Group.

Termination of Membership:

5. Membership of the Group may be ended by written notice to the Secretary of the Group.

6. Any member of the Group who ceases to be a member or honorary member of the Society shall therewith simultaneously cease to be a member of the Group.

Management:

7. The activities of the Group shall be managed by a Committee consisting of a Chairman, a Secretary, a Treasurer, an Editor of the Bulletin, and six Ordinary Members who shall be elected annually, together with the preceding Chairman, who shall be entitled to remain on the Committee for three years from the date of his retirement from office, and, *ex officio*, the Secretary of the Mineralogical Society. All Members of Committee must be normally resident within Great Britain during their period of office.

8. The Chairman, Secretary, Treasurer, and Editor of the Bulletin

shall be deemed the Officers of the Group, and the Chairman and Secretary shall be its official representatives in all matters pertaining to relations with the parent Society.

9. The Officers and Ordinary Members of Committee shall be elected annually at the Annual General Meeting and shall hold office from the end of that Annual General Meeting to the end of the next Annual General Meeting.

10. Two Ordinary Members of Committee shall retire annually at the Annual General Meeting, and shall not be eligible for re-election as such until the next Annual General Meeting.

11. At or before the end of June each year the Committee shall prepare a list of members nominated by the Committee as Officers and as Ordinary Members of Committee for the ensuing year, this list to be sent by the Secretary to every Member of the Group at his last-known address not later than the next ensuing 31 July.

12. Additional nominations may be made by Members of the Group not being Members of Committee subject to the following conditions:

(a) All such nominations must be received by the Secretary not later than the next ensuing 1 September.

(b) Every Candidate, whether proposed as an Officer or Ordinary Member of Committee, must be proposed by no less than two Members of the Group, not being Members of the Committee, who must both sign the Candidate's Nomination Form, which must be accompanied by a statement signed by the Candidate that he accepts nomination.

(c) No member of the Group may propose more than two Candidates.

(d) No Candidate may be nominated for more than one position on the Committee.

(e) No Member of the Group whose name has been entered on the list of Candidates nominated by the Committee for Ordinary Membership of Committee may accept nomination under this Paragraph for any other position on the Committee.

13. If through death or for any other reason a vacancy should be created on the list circulated by the Committee, the Committee shall have the power to fill the vacancy thus created and shall notify members of this change as soon as possible.

14. If not more than ten Candidates are nominated for the positions on the Committee set out in paragraph 7, the Candidates shall be declared duly elected at the next ensuing Annual General Meeting.

15. If more Candidates are nominated for any position on the Committee than there are vacancies then an election by Ballot shall be held.

16. In the event of an election by Ballot being required, the Secretary shall issue to every Member of the Group at his last-known address not later than the next ensuing 30 September a voting-paper containing the names of all Candidates duly nominated in accordance with the provisions of these Paragraphs, which list shall show the Office or other position on the Committee for which each Candidate has been nominated.

17. No vote may be cast for any Candidate whose name is not entered on the voting list, and no Member may vote for more than ten Candidates in all.

18. Every Member voting shall place his voting-paper when duly completed in an envelope, which shall be closed and placed in another envelope for return to the Scrutineers of the Ballot. The outer envelope must also be closed, must be inscribed 'Voting-Paper', and must bear the name of the Member voting, but no indication of the Voter's identity may appear on the voting-paper or on the inner envelope. Members voting may return their voting-papers enclosed in the manner prescribed to the Secretary beforehand by post or other means or may deliver them to him at the commencement of the Annual General Meeting.

19. As soon as may be convenient after the opening of the Annual General Meeting the Chairman of the Meeting shall appoint from amongst the Members present two Members, not being Members of the Committee or Candidates for election to the Committee, to act as Scrutineers of the Ballot, to whom the outer envelopes containing the voting-papers received by the Secretary shall be forthwith delivered unopened, and when this has been done the Ballot shall be declared closed.

20. Upon completion of their examination of the voting-papers the Scrutineers shall present to the Chairman of the Meeting a list showing the result of the Ballot, and if the list be in accordance with the provisions of these Paragraphs, the Chairman shall declare the new Committee to have been duly elected and to be constituted in accordance with the provisions of these Paragraphs.

21. If, however, any difficulty should arise in constituting the new Committee in conformity with the provision of these Paragraphs from the list returned by the Scrutineers owing to an equality of votes or otherwise, the decision of the Chairman, who shall have a casting vote, shall be final, provided always that in no case shall the Chairman declare elected more than eight Members who were Members of the retiring Committee.

22. The Committee shall have the power to appoint Officers, and to

co-opt Ordinary Members of the Committee to fill vacancies caused by death or resignation during the interval between two Annual General Meetings.

23. Meetings of the Committee shall be summoned by the Secretary at the order of the Chairman or of not fewer than three Members of the Committee; at such a meeting four shall be a quorum, of whom one shall be either the Chairman, the Secretary, or the Treasurer.

24. A report on the work and progress of the Group shall be submitted at each Annual General Meeting.

Meetings:

25. One Meeting of the Group (the Annual General Meeting) shall be held in each Calendar year, either in November or as near thereto as may be convenient.

26. Further meetings may be held at the discretion of the Committee. Such meetings may be either Special General Meetings (for the transaction of business affecting the constitution or management of the Group) or Ordinary Meetings.

27. Members shall be notified of the place and date of each Annual or Special General Meeting not less than three weeks in advance.

Alterations to Constitution:

28. Alterations to the Constitution may be made only with the approval of the Group (expressed by majority decision at an Annual or Special General Meeting) and of the Council of the Society; and shall not become effective until they have received such approval.

Terminology:

29. In the above text 'the Society' means the 'Mineralogical Society of Great Britain and Ireland', 'the Group' means the Clay Minerals Group of the Mineralogical Society, and 'the Committee' means the Committee of the Group, as above defined.