PROCEEDINGS OF THE MINERALOGICAL SOCIETY (1964)

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 30 January 1964, at 3 p.m.

Prof. J. H. TAYLOB, President, in the Chair

The following were provisionally elected Ordinary Members of the Society: Michael Patrick Atherton, Russell Black, Hugh Victor Eales, Ian Lethbridge Gibson, Odd Gjems, Dmitry Pavlovich Grigoriev, Paul Henderson, Heinrich Dieter Holland, Neil Taylor Livesey, Alec Livingstone, William David McRitchie, Kevin John O'Reilly, Michael John Pink, Alexander Sergeievich Povarennykh, Frederick John Sawkins, Syed Fuzail Ahmed Siddiqui, Ruth Caroline Taylor.

The resignations of Mr. A. C. Hills, Mr. C. G. Nicholson, and Lt.-Col. E. D. Taylor were accepted.

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

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 30 January 1964, at 5 p.m.

Prof. J. H. TAYLOR, President, in the Chair

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

The following exhibits were shown:

1. Light drilling rigs: by H. I. Drever.

2. Kyanite pseudomorphs after and alusite from Galicia, Spain: by P. Wilkinson.

3. Jarosite from Turf Pits, Grassington Moor, Skipton, Yorkshire: by A. W. G. Kingsbury.

The following papers were read and discussed:

1. Olivine composition determination with small-diameter X-ray powder cameras: by J. L. Jambor and C. H. Smith (vol. 33, p. 730).

PROCEEDINGS OF THE MINERALOGICAL SOCIETY (1964)

2. A study of the hydrothermal growth of ruby: by J. Butcher and E. A. D. White (vol. 33, p. 974).

3. The thermal decomposition of crocidolite: by A. A. Hodgson, A. G. Freeman, H. F. W. Taylor, V. C. Farmer, and B. D. Mitchell (vol. 35, p. 5).

The following papers were taken as read:

1

1. Formation of X-ray amorphous and crystalline aluminium hydroxides: by Pa Ho Hsu and T. F. Bates (vol. 33, p. 749).

2. Direct stereographic determination of optic axes from a few extinction measurements: a progressive elimination technique: by F. E. Tocher (vol. 33, p. 780).

3. A zinc phosphate analogue of analcime: kehoeite: by Duncan McConnell (vol. 33, p. 799).

4. Statistical analysis of X-ray data for olivine: by F. P. Agterberg (vol. 33, p. 742).

5. Rhombohedral molybdenite from the Minas de Panasqueira, Beira Baixa, Portugal: by A. H. Clark (vol. 35, p. 69).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 12 March 1964, at 3 p.m.

Prof. J. H. TAYLOR, President, in the Chair

The following were provisionally elected Ordinary Members of the Society: Fred Barker, David Stuart Buist, Fedor Chukhrov, Ursula Moser Cowgill, John Edward Guest, Eduard Gottlieb Haldemann, Henry Oostenwald Albertijn Meyer, Michael Stanley Money, Ian Parsons, and David Robert Wones.

The deaths of Mr. Robert S. Green, Dr. John Raymund Foggan Joyce, Dr. Charles Taylor Trechmann, and Sir Arthur Edward Ian Montagu Russell were reported.

The resignations of Dr. G. Kullerud and Prof. I. Oftedal were accepted, and the reinstatement of Mr. P. H. Ribbe agreed to.

Mr. P. G. Embrey and Dr. R. A. Howie were appointed auditors of the Society's accounts for the period 1 January 1963 to 30 June 1964.

Reports were received from the Treasurer, the Editors, the Publications Committee, and the Clay Minerals Group. The President was nominated as the Society's voting delegate to the forthcoming I.G.C. meeting in Delhi.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 12 March 1964, at 5 p.m.

Prof. J. H. TAYLOR, President, in the Chair

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

The following exhibits were shown:

1. Jarosite from the Dent fault at Hartley Birkett, Kirkby Stephen, Westmorland, Plumbojarosite from Turf Pits, Grassington Moor, Skipton, Yorkshire, and Argentojarosite from West Turf Pits, Grassington Moor: by A. W. G. Kingsbury.

2. A hydraulic stage: an aid to counting mineral grains: by D. W. Humphries (vol. 33, p. 918).

The following papers were read and discussed:

1. Spurrite from northern Coahuila, Mexico: by A. K. Temple and E. Wm. Heinrich (vol. 33, p. 841).

2. The thermal disintegration of crocidolite in air and in vacuum by J. H. Patterson (vol. 35, p. 31).

3. Arthurite, a new copper-iron arsenate from Cornwall: by R. J. Davis and M. H. Hey (vol. 33, p. 937).

4. The oriented transformation of manganite during heat treatment: by D. R. Dasgupta (vol. 35, p. 131).

JOINT MEETING WITH THE INSTITUTION OF MINING AND METALLURGY

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 23 April 1964, at 4 p.m.

Prof. J. H. TAYLOR, President of the Mineralogical Society and Vice-President of the Institution of Mining and Metallurgy, in the Chair

The following exhibits were shown:

1. Applications of electron-probe microanalysis in the mineral industry: by T. K. Kelly and A. P. Millman.

lii proceedings of the mineralogical society (1964)

2. Illustrations of X-ray microanalysis applied to ore mineralogy: by E. F. Stumpfl and A. M. Clark.

The following papers were read and discussed:

1. Geochemistry and ore mineral parageneses of some Caledonian basic igneous rocks from Sørøy, Northern Norway: by E. F. Stumpfl and B. A. Sturt.

2. Quantitative measurements with the reflecting polarizing microscope: by S. H. U. Bowie and N. F. M. Henry.

3. Optics of pyrrhotine: by K. von Gehlen and H. Piller.

4. Reflectance techniques in coal petrology and their possible application in ore mineralogy: by D. H. Murchison.

5. Microhardness and deformation characteristics of ore minerals: by A. P. Millman and B. B. Young.

6. Measurement of the spectral reflectivities of manganese oxides: by I. Nichol and R. Phillips (vol. 35, p. 200)

7. The effect of polishing on the reflectivity of pyrite: by A. F. Hallimond and S. H. U. Bowie.

Beflectivity was measured differentially against a Vickers 'Inconel' standard surface in white light for various stages of polishing. With 3 μ diamond, pyrite was several units lower, R for various faces being in the order (111) < (110) < (100). With 0-1 μ diamond followed by γ -alumina, the values converged to a constant and equal value, within about $\frac{1}{2}$ unit, but only after several 10-minute periods on cloth. Silicone lubricant gave the same value as water. R for pyrite from 12 localities agreed within about 1 unit.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 7 May 1964, at 4 p.m.

The following papers were read and discussed:

1. Mineral assemblages, fluid inclusions, and the composition of hydrothermal ore-forming fluids: by H. D. Holland.

2. Strontium isotope abundance studies and rubidium-strontium age determinations on Tertiary igneous rocks from the Isle of Skye: by S. Moorbath and J. D. Bell.

3. The isotopic constitution of strontium in some Hawaiisn rocks: by E. I. Hamilton.

4. Strontium isotopes in the Garabal Hill complex: by C. P. Summerhayes.

5. Common strontium in plagioclase feldspars from some basic igneous rocks: by J. R. Butler and W. Skiba.

6. Preliminary investigations into the sorption of boron by clay minerals: by M. E. L. Fleet.

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 28 May 1964, at 3 p.m.

Prof. J. H. TAYLOR, President, in the Chair

The following were provisionally elected Ordinary Members of the Society: Lilabati Bhattacherjee, Siva Brata Bhattacherjee, Francis De Buda, Essam El-din El-Hinnawi, Royston William Dunlop Elwell, Michael Edward Lewis Fleet, Richard Alexander Lovatt, Zaccheus Akinola Makanjuola, George Robert McCormick, Mohamed Abdel Hamid Naga, Theodor Sorgenfrei, Roger Guillaume Jean Strens, and Asal Jaffar Ogli Sultanov.

The death of Dr. M. C. Bandy, Honorary Member, was reported.

Reports were received from the Treasurer, the Editors, the Clay Minerals Group, the Geochemical Group, the Ore Mineralogy Group, and the sub-committee to consider amendments to the Bye-Laws.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 28 May 1964, at 5 p.m.

Prof. J. H. TAYLOR, President, in the Chair

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

The following exhibit was shown:

Strontianite and strontianite-rich rocks from Kangankunde Hill, Nyasaland: by T. Deans.

liii

liv proceedings of the mineralogical society (1964)

The following papers were read and discussed:

1. Deerite, Howieite, and Zussmanite, three new minerals from the Franciscan of the Laytonville district, Mendocino Co., California: by S. O. Agrell, M. G. Bown, and D. McKie.

2. Conical extinction curves: a new universal stage technique: by N. Joel and F. E. Tocher (vol. 33, p. 853).

3. An electron-microscope investigation of peristerite plagioclases: by S. G. Fleet and P. H. Ribbe (vol. 35, p. 165).

4. Feldspars and pyroxenes from the charnockite series of Visakhapatnam area, Andhra Pradesh, India: by M. S. Murty.

The following papers were taken as read:

1. A new universal stage technique: the determination of 2V when neither optic axis is directly observable: by F. E. Tocher (vol. 33, p. 1038).

2. Amphiboles in alkaline rocks of Koraput, Orissa: by M. K. Bose (vol. 33, p. 912).

3. Epidotes of the Borrowdale Volcanic rocks of central Borrowdale: by R. G. J. Strens (vol. 33, p. 868).

4. Wairauite, a new cobalt-iron mineral: by G. K. Challis and J. V. P. Long (vol. 33, p. 942).

5. Mboziite, a new sodic amphibole end-member: by P. W. G. Brock, D. C. Gellatly, and O. von Knorring (vol. 33, p. 1057).

GENERAL MEETING

Held in the Geology Department of Bristol University, 17 September 1964, at 2.30 p.m.

The following papers were read and discussed:

1. Pumpellyite in Snowdonian soils and rocks: by D. A. Jenkins and D. F. Ball (vol. 33, p. 1093).

2. A chondrodite-humite-spinel marble from Sørfinnset, near Glomfjord, northern Norway: by R. Bradshaw and B. E. Leake (vol. 33, p. 1066).

3. X-ray studies of some growth fabrics: by R. Bradshaw and F. C. Phillips.

4. Topotaxy in the system groutite-ramsdellite-pyrolusite: by I. B. Smith and L. D. Glasser.

5. The geochemistry of Upper Cambrian Dolgelly beds near Criccieth, Caernarvonshire: by T. W. Bloxam and N. B. Price.

6. The petrochemistry of some Lewisian granitic rocks: by D. R. Bowes.

7. The thermal decomposition of amosite: by A. A. Hodgson, A. G. Freeman, and H. F. W. Taylor.

The following papers were taken as read:

1. Theory of immiscibility in mineral systems: by Robert F. Mueller (vol. 33, p. 1015).

2. The transformation of groutite (α -MnOOH) into pyrolusite (MnO₂): by J. Lima-de-Faria and A. Lopes-Vieira (vol. 33, p. 1024).

3. Archimedean polyhedra as the basis of tetrahedrally-coordinated frameworks: by Paul B. Moore and Joseph V. Smith (vol. 33, p. 1008).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London W. 1, 5 November 1964, at 2.30 p.m.

Prof. J. H. TAYLOR, President, in the Chair

The following were provisionally elected Ordinary Members of the Society: Shigenori Aomine, Michael Stuart Barratt, Philippa Margaret Black, Jose Bosch-Figueroa, Victor Colin Farmer, Ian Haugh, Godfrey Hinga, Jean Toshimichi Iiyama, Robert Louis Ledoux, Donald Ivor John Mallick, Peter Folson McFarlin McFarlin, Joaquin Montoriol, William Charles Morgan, and Stirling Edward Shaw.

The following resignations were accepted: I. M. Gray, E. J. Wayland, and R. J. Wakelin, and the election of K. O'Reilly was declared null and void.

The death of Mr. W. T. Harry was reported.

Reports were received from the British Committee of Management of Mineralogical Abstracts, the Publications Committee, the Geochemistry Committee, the Treasurer, the Editors, and the Clay Minerals Group. The recommendations of the British Committee of Management of Mineralogical Abstracts were approved subject to the agreement of the American Committee.

ANNIVERSARY MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W. 1, 5 November 1964, at 5 p.m.

Prof. J. H. TAYLOR, President, in the Chair

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

The General Secretary read the following:

ANNUAL REPORT OF THE COUNCIL FOR 1963-64

Membership. The total membership on 31 October 1964 was 861 against 816 on 31 October 1963. Fifty-five new members have been elected during this year, four members have resigned, and the Society has lost by death five Ordinary Members and one Honorary Member. On 31 October 1964 the membership consisted of 8 Honorary Members and 853 Ordinary Members, of whom 71 are Life Members. 381 members are also members of the Clay Minerals Group.

Meetings. During the session 1963-64 there have been four general meetings in London, one general meeting in Bristol (with a field excursion), one special meeting on geochemical topics in London (sponsored by the Committee on Geochemistry), and one joint meeting with the Institution of Mining and Metallurgy in London (sponsored by the Committee on Ore Mineralogy). Attendance for the joint meeting was 80 members and guests, and averaged 48 members and guests at the other meetings. Thirty-six papers were read, 18 papers taken as read, and 13 exhibits shown.

At two meetings of the Clay Minerals Group held in London and Nottingham, 16 papers were read and the average attendance was 35.

Publications. Three numbers of the *Mineralogical Magazine* have been issued during 1964, and the fourth (December 1964) is expected in late December 1964. The four numbers (264-267) will contain 46 papers, 7 book reviews, and 122 text figures in 434 pages, also the topographical and alphabetical indexes.

The volume of the Magazine dedicated to Professor C. E. Tilley (vol. 34) will be published in February 1965.

Four numbers of *Mineralogical Abstracts* (including the December 1963 number) were published during the year 1964; they comprise 2867 items (abstracts, references by title only, and book notices) in 348 pages. The complete text of volume 16, 1963–64, contains 5696 items in 670 pages; the General Index, which forms the December number of volume 16, is in preparation. It is proposed that volume 17, 1965–66, should consist of eight quarterly numbers plus a General Index.

Two numbers (30 and 31) of the Clay Minerals Bulletin have been issued during the year.

Financial. The Society has changed its financial year, which now ends on 30 June instead of 31 December. The accounts for the eighteen months to 30 June 1964 are published together with this report. The excess of assets (exclusive of the Society's library and stock of publications) over liabilities at 30 June 1964 was $\pounds 8860.$ 17s. 5d. compared with $\pounds 6791.$ 18s. 4d. at the close of 1962.

Three numbers of the *Mineralogical Magazine* for 1964 have appeared, two of which cost £1453. 7s. 6d.; also three numbers of *Mineralogical Abstracts*, two of which have cost £1860. 11s. 6d.

Sales of publications so far during 1964 are as follows: Mineralogical Magazine

£2708. 7s. 8d.; Mineralogical Abstracts £2322. 5s. 4d.; X-ray Monograph £1134. 4s. 6d.; and D.T.A. Monograph (reprinting) £5. 8s. 3d.

The balances of the Society's Bankers and in the Post Office Savings Bank on 31 October 1964 were: General Fund £5178. 18s. 1d., Miers-Spencer Memorial Fund £90. 16s. 11d., Mineralogical Abstracts Fund £100.

After the adoption of the Annual Report, a vote of thanks to the Geological Society for the use of their rooms was carried with acclamation.

A number of alterations to the Bye-laws, proposed by Council, were put to the meeting and adopted *nem. con.*; the amended Bye-laws are printed on pp. ix to xiv of this issue.

The President read the list of Officers and Council elected for the session 1964-5:

President: Prof. J. H. Taylor Vice-Presidents: Prof. W. A. Deer; M. H. Hey Treasurer: A. F. Seager General Secretary: J. R. Butler Foreign Secretary: W. Campbell Smith Editor of the Mineralogical Magazine: M. H. Hey Editor of the Mineralogical Abstracts: J. Phemister

Ordinary Members of Council

M. H. Battey	T. W. Bloxam
S. H. U. Bowie	T. Deans
P. Gay	R. A. Howie
D. G. Murchison	R. W. B. Nurse
R. Phillips	Prof. F. H. Stewart
E. F. Stumpfl	Prof. E. A. Vincent

A vote of thanks to the retiring Vice-President and Ordinary Members of Council was proposed and carried with acclamation.

The following exhibit was shown:

Beryllium minerals new to Britain: chrysoberyl, rhodizite, beryllonite, milarite, and eudidymite, all from the Meldon aplite quarries, near Okehampton, Devon: by A. W. G. Kingsbury.

The following papers were read and discussed:

1. Mineralogy of the British evaporites: by Prof. F. H. Stewart (vol. 34, p. 460).

2. Polythermal metamorphism of limestones at Kilchoan, Ardnamurchan: by S. O. Agrell (vol. 34, p. 1).

3. The calciferous and alkali amphiboles: by R. Phillips (vol. 33, p. 1097).

[continued on p. lxiv

MINERALOGICAL

INCOME AND EXPENDITURE ACCOUNT

A. GENERAL

1962 £	Income					£	8.	d.	£	<i>s</i> .	d.
1152	Members' subscriptions— Annual subscriptions Entrance fees	<u>.</u>		•		$2003 \\ 71$	4 18	6 0	2075	2	6
1192	Mineralogical Magazine— Advertisement fees					278	4	11	2010	-	Ū
2781	Sales	•	·		•	6553	18	8	6832	3	7
0.00	Investment revenue— Interest on investments Post Office Savings Bank interest		•			$\begin{array}{c} 367\\ 32 \end{array}$	$\begin{array}{c} 0 \\ 7 \end{array}$	$\frac{3}{3}$	399	7	в
262 1	Sundry income Clay Minerals Group—		•	•	•	•	•	•	399 76	12	7
	Clay Minerals Bulletin: Subscriptions Sales, including authors' reprints	•	•	•		$891 \\ 652$	$6\\5$	$\begin{array}{c} 11\\ 0\end{array}$	1543		
309	Clay Minerals Monographs: Sales—2nd ed. X-ray Identification	and	Crysta	l Stru	c-				1943	11	11
4550	tures of Clay Minerals The Differential Thermal Investige	ation (of Cla	ys	•	$\begin{array}{c} 2170 \\ 193 \\ \end{array}$	18 13	0 0	2364	11	11
$0\\5$	Glossary of Clay Trade Names, sales Interest on Bank Accounts (Harpende Advertisements	en and	1 Cam	bridge	>)	•	•	•	1 1 41	17 8 6	6 1 0
	Other income		•	•	•	•	•		1	18	1

£9060							£1	3337	18	9
					B.	MIEI	RS-S	PEN	CE	R
£	Investment revenue .	•				•		£ 39		d.6
£125								£39	8	6
			C.	CLA	YN	IINEF	RALS	s GR	J01	JP

						£	<i>s</i> .	d.
	Interest					3		
	Balance, being excess of expenditure over income	•	•	·	•	19	5	7
£113						£22	16	0
								_

SOCIETY

FOR THE EIGHTEEN MONTHS ENDED 30 JUNE 1964

FUND

1962													
£	Exper	DITUR	E					£	8.	d.	£	8.	d.
	Mineralogical Magazine Nos. 260–265 inclusive:												
	Printing							3038	8	2			
	Illustrations .							226	1	6			
	Author's reprints	•	•		•	•	•	293		8			
	Distribution to memb		•	•	•	•	•	157	7	3			
	Distribution to subscr	ibers	•	•	•	•	•	166	2	0	0001	14	-
2486											$3881 \\ 36$		7
55	Editorial Expenses	•••••	:	•		. .	• •			·	30	14	ð
82	Contribution to Minerald	ogrcal A	Lostra	cts for	Lite	and He	onorar	y			184	10	0
0	Members Subscriptions to Internatio		·	•			1089	• •		•	184 64		3
U	Mosting expanses	nai mi	enerai	ogicai	A880	crarion	1905 .	•		·	04	10	.,
	Meeting expenses— Notices of meetings							385	0	9			
	General expenses in com	nevion	with	moot	inge	·	•	102	9	ŏ			
197	General expenses in con	nearon	** 1011	moou	ings	•	•		-		487	9	9
101	General expenses—										~~ .	•	
	Office rental and house	exnens	es					512	6	10			
	Clerical assistance .	•						2638	10	0			
	Printing and stationery							158	7	6			
								286	6	7			
	Sundry office expenses							70	16	4			
2185	• •										3666	7	3
	Clay Minerals Group												
	Clay Minerals Bulletin:												
	Printing Bulletins N	los. 28	, 29, 8	and 3) and	autho	's'	1005	~	•			
	reprints .		•	•	•	•	•	1205	0	3			
100	Editorial expenses	•	•	•	•	•	•	10	0	0	1015	•	•
482	M 1										1215	0	3 9
2874	Monograph expenses	·	•	•	·	•	•	•	•	·	512	T	9
	General expenses:							102	11	0			
	Notices of meetings Sundry expenses	•	•	·	·	•	•		12	2			
	Office and clerical ext	·	·	•	•	•	·	294		õ			
	Secretary's expenses	011608	•	•	·	•	•		12	ŏ			
	Treasurer's expenses	•		•			:	10	10	Ŏ			
299	riousaror 5 carponisos	•			•						445	16	2
400	Balance, being excess of ine	come o	ver ex	spend	iture	for eig	hteen r	nonth	s		2843	9	6
				-1		0							
£9060										1	213337	18	9
												_	
MEMO	ORIAL FUND												
e											£	8.	d.
£	Park shares											11	
	Bank charges	•	•	·	•	·	•	•	•	·			
125	Balance, being excess of in	\mathbf{ncome}	over	expen	ditur	e for t	he yea	r	•		36	16	8
											200	0	
£125											£39	8	6
													فسنسه
BODT	TON DELEGATED	177 D.T.	-	а та									
FORE	IGN DELEGATES E	SXPE	INSE	us f	UNI)							
£											£	8.	d.
0	Expenses	•	•		•	·	•	•	•		22	16	0
0											£22	16	0
_											_	-	

= 2 November 1964	P. G. EMBREY R. A. HOWIE Auditors	A. F. SEAGER, Hon. Treasurer

MINERALOGICAL

BALANCE SHEET AS AT

A. GENERAL

1000						\mathbf{n}	. c	(TATA T	1101	11
1962 £	LIABILITIES	£	<i>s</i> .	d.	£	<i>s</i> .	d.	£	<i>s</i> .	d.
	Fund Account— Balance per Balance Sheet at 31 December 1962 Add Excess of income over expenditure	5807	8	3						
	for eighteen months ended 30 June 1964 Composition fee received .	$\begin{array}{r} 2843 \\ 60 \end{array}$	9 0	$\begin{array}{c} 6 \\ 0 \end{array}$		1.5	0			
	Less Depreciation on office furniture and equipment Transfer to Mineralogical Abstracts	132	6	8	8285	17	8			
5808	Fund Loss on sale of investments	250 352	0 13		735	0	1	7975	17	8
1178 171	Publications Fund Subscriptions, &c., received in advance Sundry creditors		•					1177 0		9 0
	Oxford University Press for Magazine No. 26 Oxford University Press for Magazine No. 26 (estimated)	5.	•		$\begin{array}{c} 674 \\ 680 \end{array}$	0	0 0			
	Royal Entomological Society for house expen Editorial travelling and other expenses Royal Society for Ioan (Parliamentary Grant-		for		81	17 11	$\frac{2}{7}$			
2060	scientific publications) Printing <i>Clay Minerals Bulletin</i> No. 30 and of Miscellaneous creditors	fprints	• • •		$750 \\ 370 \\ 122$	ì	0 0 9	0.010		A
2000								2717	17	6
£9217							£	11871	8	11
				В	. MI	ER	S8	SPEN	CE	R

 \pounds s. d. s. d.Fund Account-Balance per Balance Sheet at 31 December 1962 . Add Excess of income over expenditure for the eighteen months ended 30 June 1964 . 984 10 1 36 16 8 9 10216 1367 Less Loss on sale of investments . 0 . 985 884 19 9

£

£985

£884 19 9

£

C. CLAY MINERALS GROUP Fund Account-£ s. d. £ s. d. 2 7 Balance per Balance Sheet at 31 December 1962 113 $\mathbf{5}$. Less Excess of expenditure over income 19 5. $93 \ 19$ 7 7 £93 19

SOCIETY

30 JUNE 1964

FUND

1962 £	Assets	£	8.	d.	£	8.	d.
	Office furniture and equipment—						
	Original cost	1050		4			
329	Less depreciation	838	4	9	212	5	7
029	Investments (at cost or as valued on 31 December 1951)-		_		212	0	'
	£1700. 0s. 0d. 3½% War Stock 1952 £606. 4s. 6d. 4% Funding Stock 1960–90	1370	2	6			
	£606. $4s. 6d. 4$ % Funding Stock 1960–90	$598 \\ 216$	17	0 6			
	$\pm 250.08.0a.3\%$ Savings Bonds 1960–70.	916	7	0			
	£173. 6s. 6d. 3 % British Transport Stock 1978-88 .	127	1	3			
	£261. 12s. 6d. $3\frac{1}{2}$ % Treasury Stock 1977-80	244	8	3 3			
	2006. 42. 06. 4 % Funding Stock 1960–90	$\begin{array}{c}1065\\1116\end{array}$	17	3			
5889	554 units Equities investment I und for charteles			_	5655	4	0
	Note:—The total market value of the above invest- ments at 30 June, 1964 was £5175. 8s. 10d.						
856	Deposits— Balance with Post Office Savings Bank				888	8	7
173	Subscriptions, &c., in arrears—			:	0	0	ò
	Sundry debtors-						
500	Mineralogical Abstracts, for loan from Mineralogical				1100	0	0
500	Society of Great Britain	•	•	•	1100	U	v
	Coutts & Co., London	3055	4	3			
	Barclays Bank, Harpenden	258					
	Cambridge & District Trustee Savings Bank Cash in hand, London		0				
	Cash in hand, Harpenden	Ō	Õ	Õ			
1100	Cash in hand, Cambridge	23	10	10	4015	10	•
					4015	10	9
£9217				1	211871	8	11
	Note:-The value of the Society's library and stock of			-			
	muhlicoptions is not included in the cheme essets						
	publications is not included in the above assets.						
	publications is not included in the above assets.						
MEM £	DRIAL FUND	£	8.	<i>d</i> .	£	8.	d.
	DRIAL FUND		<i>s</i> . 12	d. 0	£	8.	d.
	DRIAL FUND				£	8.	d.
	DRIAL FUND	8 200 198	12 0 0	0 0 9	£	8.	d.
£	DRIAL FUND Investments (at cost) £9. 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock	8 200	12 0 0	0 0	-		
	DRIAL FUND Investments (at cost) £9. 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock 1979-83 	8 200 198	12 0 0	0 0 9	£ 798		<i>d</i> .
£ 740	ORIAL FUND Investments (at cost)— £9. 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d.	8 200 198	12 0 0	0 0 9	798	13	8
£	Investments (at cost) £9, 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:The total market value of the above investments	8 200 198	12 0 0	0 0 9	-		
£ 740 245	ORIAL FUND Investments (at cost)— £9. 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d.	8 200 198	12 0 0	0 0 9	798	13	8
£ 740	ORIAL FUND Investments (at cost)— £9. 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d.	8 200 198	12 0 0	0 0 9	798	13	8
£ 740 245 £985	ORIAL FUND Investments (at cost)— £9. 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d.	8 200 198	12 0 0	0 0 9	798	13	8
£ 740 245 £985	DRIAL FUND Investments (at cost)— £9, 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d. Cash—Coutts & Co., London	8 200 198	12 0 0	0 0 9	798	13	8
£ 740 <u>245</u> £985 FORI	DRIAL FUND Investments (at cost)— £9, 18s. 4d. 31 % War Stock 1952 £208. 11s. 0d. 41 % British Electricity Stock 1967-69 £200. 0s. 0d. 51 % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d. Cash—Coutts & Co., London	8 200 198	12 0 0	0 0 9	798 86 £884	13 6 19 8.	8
£ 740 <u>245</u> £985 FORI	DRIAL FUND Investments (at cost)— £9, 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d. Cash—Coutts & Co., London EIGN DELEGATES EXPENSES FUND	8 200 198	12 0 0	0 0 9	798 86 £884 £	13 6 19 8.	$\begin{array}{c} 8\\ 1\\ 9\\ \hline \end{array}$
£ 740 <u>245</u> £985 FORI	DRIAL FUND Investments (at cost)— £9, 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d. Cash—Coutts & Co., London EIGN DELEGATES EXPENSES FUND	8 200 198	12 0 0	0 0 9	798 <u>86</u> £884 £ 93	13 6 19 <i>s</i> . 19	8 1 9
£ 740 <u>245</u> £985 FORI	DRIAL FUND Investments (at cost)— £9, 18s. 4d. 3½ % War Stock 1952 £208. 11s. 0d. 4½ % British Electricity Stock 1967-69 £200. 0s. 0d. 5½ % Esso Petroleum 1st Debenture Stock 1979-83 309 units Equities Investment Fund for Charities Note:—The total market value of the above investments at 30 June 1964 was £779. 2s. 11d. Cash—Coutts & Co., London EIGN DELEGATES EXPENSES FUND	8 200 198	12 0 0	0 0 9	798 86 £884 £	13 6 19 <i>s</i> . 19	$\begin{array}{c} 8\\ 1\\ 9\\ \hline \end{array}$

2 November 1964

P. G. EMBREY R. A. HOWIE Auditors

A. F. SEAGER, Hon. Treasurer

MINERALOGICAL SOCIETIES OF

MINERALOGICAL

INCOME AND EXPENDITURE ACCOUNT

1962 £		I	NCOME						£	8.	d.	£	<i>s</i> .	d.
	Subscriptions-										_			
	Mineralogical S	Society -	of Amer	ica	•				792	2	7			
	Mineralogical S	Society	of Great	Brite	ain				1645	10	0			
1187										-	-	2437	12	7
1983	Sales											4995	6	8
0	Sundry income .									-	•	73	18	1
963	Balance, being er	xcess of	expendi	iture	over	incom	e	•	•	•		1084	17	1

£4133

£8591 14 5

.

BALANCE SHEET AS AT

£	LIABILITIES	£	8.	d.	£	<i>s</i> .	d.	£	8.	d
	Fund Account									
	Balance per Balance Sheet at 31 December	17	7.4	•						
	1962 Add Capital contribution from Minera-	47	14	9						
	logical Society of America .	250	0	0						
	Capital contribution from Minera-									
	logical Society of Great Britain .	250	0	0						
	Loan from Mineralogical Society of	1100	~	0						
	Great Britain	1100	0	0	1647	14	Q			
	Less Depreciation on office furniture and				1017	1.1	5			
	equipment	21	3	3						
	Repayment of loan from Mineralogical									
	Society of Great Britain	500	0	0						
	Excess of expenditure over income for eighteen months ended 30 June									
	1964	1084	17	1						
4 8					1606	0	4	41	14	5
80	Subscriptions received in advance				•	•		0	0	0
	Sundry creditors				10	0	0			
72	Royal Entomological Society for house expe Overdraft on bank account at Coutts & Co., Le		•		19	8 10	$\frac{6}{3}$			
12	Overtifiant on bank account at Courts & Co., 1A	onuon	•			10		28	18	9
<u> </u>										
£200								£70	13	2

AMERICA AND GREAT BRITAIN

ABSTRACTS

FOR THE EIGHTEEN MONTHS ENDED 30 JUNE 1964

1962 £	Expeni	OITUR	Е					£	8.	d.	£	s.	d.
	Mineralogical Abstracts—												
	Vol. 15, Nos. 7 and 8, Vo	J. 16.	Nos.	1 to 5	inelu	sive:							
	Printing							5871	1	10			
	Distribution .	•	•	•	•	•	•	587	9	4			
3005	Distribution .	•	•	•	•	•	•				6458	11	2
2003	Editorial expenses—										0100		-
	Editor's honorariun	•						600	0	0			
					•		•	1002	6	6			
	Assistant Editor's s			elerie	ar as	sistan	ee			-			
	General editorial ex	pense	s	•	•	•	•	93	12	10	1005	10	
949	0.00										1695	19	4
	Office expenses—									-			
	Office rental and house e		ses	•			•	249	1	11			
	Printing and stationery						•	131	5	6			
	Postage							49	9	7			
	Sundry office expenses							7	6	11			
179	v r										437	3	11
£4133											$\pounds 8591$	14	5
													-

30 JUNE 1964

£	Asse	TS						:	£s.	d.	£	8.	d.
	Office furniture and equip	omen	t										
	Original cost .	•						1	41 1	4			
	<i>Less</i> depreciation								70 8	2			
92	-										70	13	2
108	Subscriptions in arrears	•	•	•	•	•	•	•	•	•	0	0	0

£200

£70 13 2

2 November 1964

P. G. EMBREY R. A. HOWIE Auditors

A. F. SEAGER, Hon. Treasurer

lxiv proceedings of the mineralogical society (1964)

4. Twenty-third list of new mineral names: by M. H. Hey (vol. 33, p. 1125).

The following papers were taken as read:

1. The thermal decomposition of miscellaneous crocidolites: by A. A. Hodgson.

2. A numerical system of classification for chlorites and septechlorites: by W. R. Phillips (vol. 33, p. 1114).