PROCEEDINGS

OF THE

MINERALOGICAL SOCIETY

(1949)

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., January 27, 1949, at 3.15 p.m.

Professor C. E. TILLEY, President, in the Chair.

THE following were provisionally elected Ordinary Members of the Society: Ciro Andreatta, Albert Victor Briebach, Enrico Cohen, Judith Augusta Maria Cohen, Marjorie Hooker, Ernest David Lacy, Douglas James Shearman, and Walter Wahl.

The resignations of R. O. Warburg and C. W. Pegg were accepted. The election of E. W. Powell was declared void.

Reports were received from the Treasurer and the Editor. The Treasurer presented the audited accounts for 1948, which were approved.

The question of secretarial assistance to the Honorary Officers was considered and a committee was appointed to make recommendations.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., January 27, 1949, at 5 p.m.

Professor C. E. TILLEY, President, in the Chair.

Forty-one Members and eight Visitors were present.

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

The following exhibits were shown:

1. Photographs of the one-ton meteoritic stone (achondrite) of the shower which fell on February 18, 1948, in Norton County, Kansas, and Furnas County, Nebraska: by Dr. L. J. Spencer on behalf of Dr. Lincoln La Paz.

2. Naturally occurring polymerized hydrocarbons and associated minerals from Derbyshire: by Mr. G. Mueller.

The following papers were read and discussed:

- 1. The occurrence of iron-cordierite in blast-furnace linings: by Mr. H. M. Richardson and Dr. G. R. Rigby (vol. 28, p. 547).
- 2. The constitution of some Egyptian clays: by Mr. G. M. Gad and Mr. L. R. Barrett (vol. 28, p. 587).
- 3. Goethe's interest in British mineralogy: by Dr. J. Hennig (vol. 28, p. 534).
- 4. Notes on the mineralogy and geochemistry of zinc: by Dr. H. Neumann (vol. 28, p. 575).
- 5. Dickite from the Witwatersrand gold mines: by Dr. J. J. Frankel (vol. 28, p. 582).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., March 31, 1949, at 3.15 p.m.

Professor C. E. TILLEY, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Johan Christiaan Louis Favejee, Hylton Judith Grenville-Wells, Yves Letort, Geoffrey Dennis Nicholls, Tògan Serif Önay, Gordon van Praagh, Ahmed Mohamed Rashed, Kenneth Edmund Seal, Edgar Ralph Segnit, Liang-ho Su, Eric James William Whittaker.

J. Cameron was removed from the list of members for non-payment of subscriptions.

Reports were received from the Treasurer and the Editor.

Dr. G. W. Brindley reported that good progress was being made with the monograph on clay minerals. He pointed out that there was sufficient material for the printing of two numbers per annum of the Clay Minerals Bulletin, and it was agreed that this could be done.

A report was received from the committee on secretarial assistance for the Honorary Officers, and the recommendations were approved.

The customary presentation of the audited accounts at the January meeting had been found difficult for the Treasurer. It was agreed that in future these be presented at the March meeting and printed in the June number of the Magazine.

The list of Officers and Council for 1949-50 was considered. Resignations were received from Dr. A. J. Bull as Treasurer (since 1942) and

Mr. F. N. Ashcroft as Managing Trustee (since 1912). The following were due to retire: Vice-President, Mr. C. E. N. Bromehead; Ordinary Members of Council, Mr. T. Deans, Dr. W. A. Deer, Mrs. K. Lonsdale, and Mr. R. C. Spiller. The following new nominations were proposed: Vice-President, Dr. A. J. Bull; Ordinary Members of Council, Dr. F. A. Bannister, Dr. J. Phemister, Mr. H. P. Rooksby, and Mr. H. M. Powell.

The Secretary read a letter from the Italian Mineralogical Society asking for an exchange of publications, and this was agreed. It was agreed that the Society was at present only prepared to enter into exchanges with periodicals of mineralogical and petrological interest.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., March 31, 1949, at 5 p.m.

Professor C. E. TILLEY, President, in the Chair.

Forty-nine Members and five Visitors were present.

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

The following exhibit was shown:

A model illustrating the ionic radii of the elements: by Dr. S. I. Tomkeieff.

The following papers were read and discussed:

- 1. The petrology of the evaporites of the Eskdale no. 2 boring, east Yorkshire, Part I. The lower evaporite bed: by Dr. F. H. Stewart (vol. 28, p. 621).
- 2. Cymrite, a new barium mineral from the Benallt manganese mine, Rhiw, Carnarvonshire: by Dr. W. Campbell Smith, Dr. F. A. Bannister, and Dr. M. H. Hey (vol. 28, p. 676).
- 3. Plagioclases from Sultan Hamúd, Kenya: by Mr. P. M. Game (vol. 28, p. 682).
- 4. Some problems in determining optical constants and the thickness of thin sections: by Mr. P. M. Game.
- 5. Silica percentage as a factor in igneous-rock classification: by Dr. A. K. Wells (vol. 28, p. 688).

The following paper was taken as read:

6. Unusual dolomite from Portsoy, Banff: by Mr. H. T. Harry and Mr. E. M. Patterson (vol. 28, p. 714).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., June 23, 1949, at 3.15 p.m.

Professor C. E. TILLEY, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Donald Herbert Gorman, Francis Jones, Basil Charles King, Bruce Duff Mitchell, Wallace Spencer Pitcher, Brajmohan Prasad Tiwari, and Peter Wilkinson.

The deaths of F. N. Ashcroft and A. D. Combe, both Life Members, were reported. The resignation of Sir Edward B. Bailey was accepted. The names of P. D. Blake and F. H. Rathmann were removed from the list of members for non-payment of subscriptions.

The Council recorded its great appreciation of Mr. Ashcroft's long and devoted service to the Society in a variety of ways, particularly in his care over many years of its financial well-being. The President announced Mr. Ashcroft's bequest to the Society of: (a) £150 free of tax, subject to it 'not being used for the purpose of providing any prize or medal or a reward of any sort to individual persons'; (b) his complete and beautifully bound sets of the Mineralogical Magazine, American Mineralogist, and Schweizerische Mineralogische und Petrographische Mitteilungen, with power for their sale subject to the same conditions as to the use of the proceeds; (c) his stock of sets and odd numbers of the Mineralogical Magazine, with the request that on their sale the Society should as far as possible reimburse the cost of his stock to his estate and retain any profit.

The Secretary reported that the value of the Magazine stock mentioned in (c) was £40. 16s. 5d., and it was agreed that this amount should be paid immediately to Mr. Ashcroft's executors.

Reports were received from the Treasurer and the Editor.

The rules of constitution of the Clay Minerals Group were modified at the annual general meeting of the group held at Leeds on April 8, 1949, by the addition of the editor of the Clay Minerals Bulletin to the managing committee. A proposal to re-issue in printed form nos. 1 and 2 of the Clay Minerals Bulletin was also approved.

The Secretary reported on the diminishing stock of the Magazine, and it was agreed to print 1100 copies of no. 206. The question of reprinting certain numbers was further considered. Mr. F. N. Ashcroft had acted as custodian of the stock, and the Secretary now kindly offered to undertake this work.

GENERAL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., June 23, 1949, at 5 p.m.

Professor C. E. TILLEY, President, in the Chair.

Thirty-nine Members and six Visitors were present.

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

The members standing, the President announced with regret the death of Mr. F. N. Ashcroft and spoke in appreciation of his long and devoted service to the Society and of his contributions to the science of mineralogy. He also announced the bequest to the Society of a sum of £150 and of certain complete runs of mineralogical journals.

The following exhibit was shown:

Structure models of some silicates and other minerals: by Dr. Nora Wooster.

The following papers were read and discussed:

- 1. On the occurrence of neptunite and eudialyte in quartz-bearing syenites from Barnavave, Carlingford, Ireland: by Dr. S. R. Nockolds (vol. 29, p. 27).
- 2. Correlation of the Mohs's scale of hardness with the Vicker's hardness numbers: by Mr. E. W. Taylor (vol. 28, p. 718).
- 3. An X-ray examination of a sample of pure calcite and of solid-solution effects in some natural calcites: by Dr. K. W. Andrews (vol. 29, p. 85).
- 4. Analytical notes II. The 'ferrous iron' and silica determinations in rocks and minerals: by Dr. M. H. Hey.
- 5. Eighteenth list of new mineral names: by Dr. L. J. Spencer (vol. 28, p. 722).

EXCERPT MINUTES OF COUNCIL MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., November 10, 1949, at 3.15 p.m.

Professor C. E. Tilley, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: David Francis Ball, Rudolf Bárta, Douglas Saxon Coombs, Robert Joseph William McLaughlin, Angela Alice Milne, Ian Douglas Muir, Reginald Frank Derek Parkinson, Roy Phillips, Beryl Scott,

Tomasz Jerry Turley, Thomas George Vallance, Arthur James Cochran Wilson, and Michael Wyatt.

The resignations of D. P. Riley and R. C. Vance were accepted.

Reports were received from the Treasurer and the Editor.

The Secretary read the draft Annual Report of the Council for 1948-49, and on the proposal of the President it was adopted.

Mr. T. Deans and Dr. David Williams were appointed auditors for 1950.

The following dates for meetings in 1950 were approved, subject to confirmation by the Geological Society: Thursdays, January 26, March 23, June 8, and November 2.

Exchange or purchase of the publications of foreign mineralogical societies for the Society's library were considered.

GENERAL (ANNIVERSARY) MEETING

Held in the Apartments of the Geological Society, Burlington House, London, W., November 10, 1949, at 5 p.m.

Professor C. E. Tilley, President, in the Chair.

Fifty-eight Members and six Visitors were present.

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

The General Secretary read the following:

ANNUAL REPORT OF THE COUNCIL FOR 1948-9.

Membership.—The total membership on October 31, 1949, was 435 against 412 on October 31, 1948. Thirty-seven new members were elected during the year, four members have resigned, the names of six have been removed on account of arrears in subscriptions, and the election of one member was declared void. The Society has lost by death three Life Members, including Mr. F. N. Ashcroft, a devoted friend and benefactor, who was for nearly 50 years a member and served as Treasurer, President, and Foreign Secretary, and had been a Trustee since 1912. On October 31 the membership consisted of 6 Honorary Members and 429 Ordinary Members, of whom 73 are Life Members.

Meetings.—The total attendance at the four meetings held during the session 1948-49 was 176 members and 28 guests, giving an average of 50 per meeting. At these meetings 18 papers have been read, 3 have been taken as read, and 6 exhibits have been shown.

Clay Minerals Group.—The membership of the Group now numbers 113 and there are 58 subscribers. The Group held a series of meetings in April at which 11 papers were read, and at which the average attendance was about 65. A further number of the Clay Minerals Bulletin (no. 3) has been issued in printed form.

Publications.—Four numbers (203-206) of the Mineralogical Magazine have been issued during the year containing the proceedings in 16 pages, 31 papers in 349 pages with 11 plates and 115 text-figures, and 793 abstracts in 224 pages. No. 194 has been reprinted.

Financial.—The accounts for the calendar year 1948, published in the March number of the Magazine, show an excess of assets (exclusive of the stock of the Magazine and the Society's other effects) over liabilities of £4,697. 2s. 5d. against £3,896. 6s. 1d. at the close of 1947. The value of the securities standing in the name of the Custodian Trustee was on December 31, 1948: General Reserve £2,963. 8s. 8d., Miers Memorial Fund £435. 0s. 0d.

The balances standing to the credit of the General Purposes Account at the close of 1948 amounted to £1,063. 16s. 0d. against £737. 9s. 0d. at the close of 1947, and that standing to the credit of the Miers Memorial Fund £34. 16s. 2d. against £30. 15s. 2d. The outstanding liabilities at the close of 1949 amounted to £53. 9s. 3d. against £283. 1s. 3d. at the close of 1947.

The receipts from entrance fees and annual subscriptions have continued to be satisfactory. The receipts from the Society's publisher for sales of the Mineralogical Magazine during the year April 1, 1948 to March 31, 1949 were £1,025. 9s. 9d. against £902. 15s. 0d. for the previous year. The net receipts from sales by the Custodian of the stock of the Magazine in 1948 totalled £65. 1s. 0d. against £109. 2s. 3d. in 1947. The gross receipts from this source from January 1 to October 31, 1949 were £148. 3s. 0d.

The rising cost of printing the Magazine is being met largely by its increased sales. Unless these large sales are maintained the cost of printing the Magazine may have to be met by increased membership subscription. In 1948 the outgoings on the Magazine totalled £1,192. $7s.\ 4d.$ against £710. $13s.\ 3d.$ in 1947. The expenditure on the four numbers (nos. 200-203) due for issue in 1948 was £954. $10s.\ 4d.$ against £983. $17s.\ 6d.$ in respect of the previous four numbers. Three numbers have been issued since the beginning of the current year, two of which have cost £552. $8s.\ 11d.$ which does not include the whole cost of the authors' separate copies, and it is estimated that the four numbers due to be issued in 1949 will exceed £1,100.

The Society has received through the Royal Society a grant of £50 from the Parliamentary Grant-in-aid for Scientific Publications as a contribution to the cost of F. H. Stewart's paper on the evaporites of the Eskdale boring. The grant of £250 received in 1948 for the purpose of producing a monograph of X-ray and other data of clay minerals has not yet been expended.

Composition Fees totalling £169. 5s. 0d. were received during 1948, and so far this year the receipts amount to £100. 0s. 0d. £100 of stock was purchased in 1948, and already this year £100 of stock has been acquired.

The balances at Bankers, in the Post Office Savings Bank, and in hand on October 31 were: General Purposes Account £1,798. 14s. 8d., Miers Memorial Fund £29. 19s. 2d., Composition Fees (Investment) Account £77. 3s. 6d., Publication Grant from Royal Society £250. The outgoings for the remainder of the year are estimated at approximately £620 and the receipts at approximately £103. On this basis the cash available for General Purposes at the close of the year should be about £1,280 against £1,063. 16s. 0d. brought in from 1949.

Ashcroft Bequest.—Mr. F. N. Ashcroft bequeathed to the Society £150 free of duty and his complete sets of the Schweizerische Mineralogische und Petrographische Mitteilungen, the American Mineralogist, and the Mineralogical Mugazine.

On the proposal of Dr. G. F. Herbert Smith, seconded by Mr. P. M. Game, the adoption of the Annual Report of the Council was carried unanimously.

A vote of thanks to the Geological Society for the use of its apartments was proposed by Mr. P. A. Sabine and seconded by Dr. N. F. M. Henry, and carried with acclamation.

The President read the following list of Officers and Council elected for the session 1949-50 in accordance with Bye-law 20:

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

Vice-Presidents. Mr. B. W. Anderson, B.Sc., F.C.S.; Dr. A. J. Bull, M.Sc., Ph.D., F.G.S.

Treasurer. Mr. E. H. Beard, B.Sc.

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

Ordinary Members of Council.

- Dr. G. W. Brindley, M.Sc., Ph.D., G. S. Gowing, M.A., F.G.S. F.Inst.P. S. I. Tomkeieff, M.Sc., D.Sc., F.G.S. Dr. F. Dixey, C.M.G., O.B.E., D.Sc., Dr. F. A. Bannister, M.A., Se.D., F.G.S. F.Inst.P. Prof. L. Hawkes, D.Sc., F.G.S. Dr. J. Phemister, M.A., D.Sc., F.R.S.E., Prof. W. Q. Kennedy, D.Sc., Ph.D., F.R.S. F.G.S. S. O. Agrell, B.A., Ph.D., F.G.S. Mr. H. M. Powell, M.A., B.Sc. H. G. Dines, A.R.S.M., F.G.S. Mr. H. P. Rooksby, B.Sc., F.Inst.P.
- Mr. G. E. Howling in proposing a vote of thanks to the retiring Treasurer, Vice-President, and Ordinary Members of Council paid a special tribute to the fine service rendered to the Society over the difficult period of the last seven years by the retiring Treasurer, Dr. A. J. Bull. The vote of thanks was seconded by Dr. S. O. Agrell.

The following exhibits were shown:

- 1. Bayldonite from three new localities in Cumberland: by Mr. A. W. G. Kingsbury.
- 2. A new 3-axis Fedorov stage: by Dr. A. F. Hallimond and Mr. E. W. Taylor (vol. 29, p. 150).

The following papers were read and discussed:

- 1. Basaluminite and hydrobasaluminite, two new minerals from Northamptonshire: by Prof. S. E. Hollingworth and Dr. F. A. Bannister (vol. 29, p. 1).
- 2. An account of the antimony mines of Great Britain and Ireland and of the minerals found therein: by Sir Arthur Russell.
- 3. On paratacamite and some related copper chlorides: by Dr. C. Frondel (vol. 29, p. 34).
- 4. Calc-silicate skarn veins in the limestone of Lough, Anure, Co. Donegal: by Mr. W. S. Pitcher (vol. 29, p. 126).

5. The chemical composition and physical properties of the residual glass of the Kap Daussy tholeiite dike, east Greenland: by Mr. E. A. Vincent (vol. 29, p. 46).

The following papers were taken as read:

- 6. Pisanite from Parys Mountain, Anglesey: by L. Bor (vol. 29, p. 63).
- 7. A note on the crystallography of epidote: by Mr. J. Hornstra and Prof. P. Terpstra (vol. 29, p. 68).
- 8. Dichroscopes for microscope stage and ocular; by Dr. A. T. J. Dollar (vol. 29, p. 163).

MINERALOGICAL

ABSTRACT OF RECEIPTS AND PAYMENTS

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RECEIPTS	£	8.	d.	£	8.	d.
By Balances brought in from 1948—						
1. At Bankers on Current Account	1001	15 3 16		1063	16	0
Entrance Fees				43	1	0
Annual Subscriptions—						
1. Current year	313 23 27	19	0 3 0	365	4	3
Sale of Publications—				000	-	·
 By Publisher, April 1, 1948-March 31, 1949. Sales at subscription rate £1004. 10s. 0d. and other sales £545. 1s. 0d. less trade discount and commission £503. 15s. 4d. and distribution charges £38. 3s. 7d. By Custodian of Stock, 1949, £174. 5s. 0d. less distribution charges £7. 19s. 4d. and cost of second-hand copies purchased £11. 6s. 3d. 	1007 154					
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Advertisement Fees £22. 7s. 1d. less commission £4. 9s. 5d Interest on Investments, including Income Tax recovered— 1. £1685 3½% War Loan, 1952 and after	4 4 4 7 7 7 3	19 4 0 7 13 10 0 7 16	6 0 8 0 0 0 0 6	17	17	8
-			—	94	17	8
Transfer from Miers Memorial Fund				30	0	0
Royal Society (Parliamentary Publications Grant)				50	0	0
Clay Minerals Group, notices to non-members				20	5	0
Small receipts				1	2	6
Interest on Post Office Savings Bank deposit				28	3	0
				£2876	18	7

SOCIETY

FOR THE YEAR ENDING DECEMBER 31, 1949

POSES ACCOUNT

P	AYME	NTS						£	8.	d.	£	8.	d.
To Printing and distributing 204–206 (Oxford Uni					l agazin	e, No	8.						
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Editor's Honorarium .											50	0	0
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Examined and compared with Vouchers and found correct.

THOMAS DEANS
DAVID WILLIAMS
Auditors.

E. H. BEARD, Hon. Treasurer.

March 22, 1950.

MIERS	MEMORIAL	FUND,	YEAR

	RECEIPTS								£	8.	
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Excess of Assets over Liabilities				4654 10 1
				£5690 19 11

ENDING DECEMB	BER 31,	1949											
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SHEET													
31, 1949													
	Ass	ETS						£	8.	d.	£	8.	d.
By General Funds:— Investments at Broke 1. £1685 3½% War 2. £105 4% Consol 3. £100 4% Fundir 4. £146. 10s. 0d. 35 5. £255 3% Defend 6. £250 3% Saving 7. £100 3% Saving 8. £275 2½% Conso 9. £100 3% British	er's Valuate Loan, 196 idated Loan, 196 og Loan, 1 % War Lo ee Bonds, 8 s Bonds, 1 s Bonds, 1	tion— 52 and a an, 1957 960–90, an, 1955 at par 1960–70, 1965–75, ock, at	, at 10 5-59, a . at 95 . at 95	01½% 7% at 103	· 3½% ·			1550 106 107 151 255 242 95 192 90	4 11 0 12 0 10 0	0 6 0 6 0	-		
Sundry Debtors— Oxford University (a) For sales of 1	publication	ıs, April	1-De					470			2790	8	0
(b) For Advertis	ement ree	s, Aprii	1-De	cembe	er 31,	, 1948	, .	7	6	- 3 	477	10	0
Entrance Fees in Arr	ear .										2	2	0
Annual Subscriptions	in Arrear	. estima	ted to	reali	ze						10	10	0
Balances— 1. At Bankers 2. In Post Office S 3. In Office			•				:	150 1529 15	16 6 7	10			
* Including £77. 3 to the credit of th	s. 6d. beir	ig uniny	ested	balar	nce s	tandi	ng				1695	10	9
Special Funds:— Miers Memorial Fu Investments at I £435 3% Defe Balance at Bank Royal Society Gran	nd— Broker's vance Bonds ers .	aluation, at par		<i>.</i>				435 29 250	0 19 0	0 2 0	714	19	2
Note: The malus of	tha Santat	., ¹ ., T :1		Loo1-	.rn.	L1: 4	i	_			£5690	19	11
Note:—The value of and other effe								,					

March 22, 1950.

E. H. BEARD, Hon. Treasurer.