

PROCEEDINGS
OF THE
MINERALOGICAL SOCIETY
(1961)

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 26 January 1961, at 3 p.m.*

Prof. L. R. WAGER, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Dr. A. M. Asklund, Mr. J. R. Cann, Mr. P. A. Dingsdale, Mr. R. C. Doman, Dr. S. Moorbath, Mr. R. A. Nash, Dr. P. H. Reitan, Prof. C. I. Rich, Dr. D. B. Stewart.

The death of Dr. R. Gradwell was reported.

The resignations of Dr. G. O. Assarsson, Dr. C. E. Weaver, Prof. W. J. McCaughey, and Dr. N. J. Snelling were accepted.

Reports were received from the Treasurer, the Editors, and the Clay Minerals Group; and the question of the need for funds for entertaining Group visitors was considered.

The provisional approval by the Mineralogical Society of America of the draft plan for the future of *Mineralogical Abstracts* for circulation to all nations by the Commission on Abstracts was reported.

The advance by the Royal Society of an interest-free loan of £750 towards the costs of reprinting the back numbers of the *Mineralogical Magazine* was reported.

The appointments of Dr. J. Phemister (Abstracts), Dr. M. H. Hey (Mineral Data; New Minerals), and Dr. G. F. Claringbull (Museums) as the Society's representatives to Commissions of the International Mineralogical Association were confirmed. The appointment of a representative to the Commission on Teaching was postponed.

The representation made by the Royal Society/British Academy Committee to the Minister for Science for the retention in the new Rating and Valuation Bill of the principles established in the Scientific Societies Act, 1843, and the Valuation Act, 1955, was reported.

The request by the Royal Society for the formal adoption by the

Society of the 'British' system for transliteration of Modern Cyrillic for use in its publications was reported.

The award to Miss J. M. Sweet (British Museum (Nat. Hist.)) of M.B.E. in the New Year's Honours was reported and the Council's congratulations on the distinction were directed to be conveyed to her.

Dr. Howie raised the question of occasional Council and General Meetings being held outside London for the convenience of those members living at some distance from London.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 26 January 1961, at 5 p.m.*

Prof. L. R. WAGER, President, in the Chair.

Sixty Members and six Visitors were present.

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

The following exhibit was shown:

Metatyuyamunite from the Permian, Budleigh Salterton, Devon: by Mr. J. F. Wyley.

The following papers were read and discussed:

1. Movement of screw dislocations in haematite: by Dr. A. F. Seager and Dr. I. Sunagawa (vol. 33, p. 1).

2. Some hydrated calcium silicates from Portree, Isle of Skye: by Miss Jessie M. Sweet, with analyses by Mr. D. I. Bothwell (vol. 32, p. 745).

3. The dehydration of brucite: by Mr. M. C. Ball and Dr. H. F. W. Taylor (vol. 32, p. 754).

4. Kennedyite, a new mineral of the pseudobrookite series: by Dr. O. von Knorring and Dr. K. G. Cox (vol. 32, p. 676).

5. Occurrence of stokesite in Czechoslovakia: by Dr. F. Čech (read by Dr. M. H. Hey (vol. 32, p. 673)).

The following papers were taken as read:

1. Contribution to the study of ore minerals in some igneous rocks from Assynt: by Dr. E. F. Stumpfl (vol. 32, p. 767).

2. Amphibolite-granulite facies assemblages in southern Nyasaland: by Dr. S. W. Morel (vol. 32, p. 725).

3. On the lithium amphibole holmquistite, from Benson pegmatite mine, Mtoko, Southern Rhodesia: by Dr. O. von Knorring and Mr. G. Hornung (vol. 32, pp. 731, 823).

4. A refinement of the dickite structure and some remarks on polymorphism in kaolin minerals: by Mr. R. E. Newham (vol. 32, p. 683).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Royal Entomological Society of
London, 41 Queen's Gate, S.W. 7, 23 March 1961, at 3 p.m.*

Prof. L. R. WAGER, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Daniel Everett Appleman, Luciano Favretto, Eugene Bischoff Gross, Meurig Powell Jones, Kenneth Taylor.

The death of Dr. Esper Signius Larsen, Jr., was reported.

The name of Prof. J. L. Kulp was removed from the list of members for non-payment of subscriptions.

Reports were received from the Treasurer, the Editors, the Clay Minerals Group, and the Publications Committee. The Treasurer presented the audited accounts for 1960, which were approved (vol. 32, pp. lxxxii-lxxxvii).

It was decided that meetings held outside London should be in addition to those normally held in London and should not necessitate a preceding Council Meeting. The possibility of combining such meetings with field excursions was discussed.

Appreciation was expressed by the Council to Dr. Hey for his endeavours to keep the publication dates of the *Magazine* on schedule; and to Dr. Bradley for her excellent work on the Index of the Abstracts.

The resignation of Mr. E. A. Jobbins (now Publications Manager) as Assistant Editor of *Mineralogical Abstracts* and the appointment to this position of Dr. O. Bradley was approved by the Council.

The figure of 3000 copies for the printing and binding of the X-ray monograph was agreed; and the price of £3 for non-members and £2 for one copy to members was suggested.

It was agreed that papers submitted to the Editor of the *Mineralogical Magazine* should be considered for refereeing with respect to the existing list of referees, but that the list might be extended.

The formal adoption by the Society of the 'British' (Brit. Standards

2979C) system for transliteration of Modern Cyrillic for use in its publications was approved by the Council.

Nominations for election to the Council were considered. The following Ordinary Members of the Council were due to retire: Dr. J. R. Butler, Dr. R. A. Howie, Prof. F. H. Stewart, and Dr. R. F. Youell. The resignation of Mr. E. A. Jobbins (Publications Manager) as a replacement for Dr. J. R. Butler (transferred to office of Secretary) was accepted. The following were proposed for election as Ordinary Members of Council at the Anniversary Meeting in November 1961: Dr. W. J. Wadsworth, Dr. J. Zussman, Dr. A. P. Millman, and Prof. W. A. Deer.

Dr. E. A. Vincent was nominated as the Society's representative to the Teaching Commission of the International Mineralogical Association.

The suggestion by the President of the International Mineralogical Association that the two journals of the British and American Societies be merged into a monthly publication, 'The International Mineralogist', was rejected by the Council.

The Council agreed that representation be made to the Minister for Science for exemption, under clause 2 (6), from the restrictions of the Radioactive Substances Act, 1960, of 'collections of radioactive minerals by universities and public museums for purposes of education and research'.

GENERAL MEETING

*Held in the Apartments of the Royal Entomological Society
of London, 41 Queen's Gate, S.W. 7, 23 March 1961, at 5 p.m.*

Prof. L. R. WAGER, President, in the Chair.

Forty-eight Members and two Visitors were present.

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

The following papers were read and discussed:

1. Green rust and the formation of magnetite: by Dr. A. L. Mackay.

The determination of the structure of chalcophanite $ZnMn_3O_7 \cdot 3H_2O$ by Wadsley enables the crystal chemistry of the green material (which is a precursor of magnetite when the latter is formed from solution) to be better understood. Electron microscope evidence as to the process involved is advanced.

2. Metamorphism and metasomatism of rocks of the Moine Series by a dolerite plug in Glenmore, Ardnamurchan: by Dr. B. C. M. Butler (vol. 32, p. 866).

3. Disordered structural states in the dehydration of goethite and diaspore: by Mr. J. Lima-de-Faria and Dr. P. Gay (vol. 33, p. 37).

4. Electron-optical and electron-diffraction study of a disordered structural state in the transformation goethite-hematite: by Dr. J. D. C. McConnell and Mr. J. Lima-de-Faria (vol. 32, p. 898).

The following papers were taken as read:

1. Solid solution relationships in some titaniferous iron oxide ores of basic igneous rocks: by Mr. J. B. Wright (vol. 32, p. 778).

2. The use of petrographic methods for the identification of non-metallic inclusions in steel: by Mr. C. G. Nicholson (vol. 32, p. 790).

3. The use of Buerger's algorithm in crystallographic calculations: by Dr. R. J. Davis (vol. 32, p. 817).

4. Weathering of sulphide minerals in coal: production of ferrous sulphate heptahydrate: by Dr. M. Kossenbergh and Mr. A. C. Cook (vol. 32, p. 829).

5. Some observations concerning viscosity and anionic groups in silicate melts: by Dr. E. Christiaan de Wys (vol. 32, p. 825).

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 8 June 1961, at 3 p.m.*

Prof. L. R. WAGER, President, in the Chair.

The following were provisionally elected Ordinary Members of the Society: Egbert Christiaan de Wys, Godfrey Jefford, John Kenneth Marshall, Emilio Mutis-Duplat.

The resignations of Mr. L. R. Raymond and Dr. J. N. Mukherjee were accepted.

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

The bequest, for eventual transfer, of funds of the late Mr. F. N. Ashcroft, invested in £100 Esso Petroleum Co. 5% 1st Debenture Shares in the name of Dr. Campbell Smith, was reported. This would be effected when the new Act controlling permissible Trustee Stock came into force, and the investment added to the Miers-Spencer Memorial Fund.

It was agreed that the revised price for the X-ray monograph would be £4. 4s. (\$12.50 U.S.) for non-members and £3 3s. (\$9.50 U.S.) for

members for one copy; that a full-page advertisement of the monograph be inserted in the September 1961 number of the *Mineralogical Magazine*; and that the authors who had contributed to the monograph should each receive two free copies of the monograph and twenty-five offprints of their chapters.

The price of £3. 3s. per calendar year of four numbers for back numbers of the *Mineralogical Abstracts* for both members and subscribers was determined.

It was agreed that the work relating to the Clay Minerals Group publications should, on a trial basis, be taken over by the Society's office at 41 Queen's Gate.

The representation made by the Secretary and Dr. Claringbull on behalf of the Council, and the proposed similar representation to be made by the Vice-Chancellor of Birkbeck College, for exemption from the restrictions of the Radioactive Substances Act were reported.

Appreciation of the assistance of Dr. Howie and Mr. Embrey in checking page references of vol. 14, No. 8, index number of the *Mineralogical Abstracts* was expressed.

The Council agreed that an annual entertainment grant of £50 be made for a period of four years, when the question should be reviewed.

Dr. Campbell Smith's wish to resign from his appointment as the Society's representative on the Geological Conservancy Council was noted and the appointment of a successor was referred to the November meeting.

The advance notification from the Royal Entomological Society of London, the landlords of 41 Queen's Gate, of the necessity for their appropriation of the third floor on the expiration of the Society's tenancy in September 1962 was noted.

The retrospective re-appointment as Managing Trustees of Prof. C. E. Tilley for a period of five years from November 1958 and Dr. W. Campbell Smith for a period of five years from March 1959 were confirmed.

The outcome of the further representations made by the Royal Society/British Academy committee to the Minister for Science and Financial Secretary regarding the effects of the new Rating and Valuation Bill on learned societies was reported.

It was reported that the statement approved by the British and American Mineralogical Societies, and other documents had been circularized by the Abstracts Commission to all members of the Abstracts Commission and Secretaries of National Societies.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 8 June 1961, at 5 p.m.*

Prof. L. R. WAGER, President, in the Chair.

Forty-seven Members and eight Visitors were present.

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

The following papers were read and discussed:

1. Some new platinoid-rich minerals, identified with the electron micro-analyser: by Dr. E. F. Stumpfl (vol. 32, p. 833).
2. Petrology of the Scourie dyke, Sutherland: by Dr. M. J. O'Hara (vol. 32, p. 848).
3. An X-ray examination of an exceptionally well-crystallized kaolinite: by Dr. J. Goodyear and Dr. W. J. Duffin (vol. 32, p. 902).
4. Electron-diffraction study of subsidiary maxima of scattered intensity in nepheline: by Dr. J. D. C. McConnell (vol. 33, p. 114).

The following paper was taken as read:

1. The kinetics of the low→high transformation in albite. I. Amelia albite under dry conditions: by Mr. D. McKie and Dr. J. D. C. McConnell.

The transformation was followed in Amelia albite powders by variation in $2\theta_{131}-2\theta_{\bar{1}\bar{3}\bar{1}}$ with time under isothermal conditions at various temperatures in the range 960° C to 1080° C. The activation energy of about 60 kcal. mole⁻¹ is similar to that obtained for the ordering process in synthetic NaAlSi₃O₈ under hydrothermal conditions.

EXCERPT MINUTES OF COUNCIL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 2 November 1961, at 3 p.m.*

Dr. A. F. HALLIMOND, Vice-President, in the Chair.

Dr. M. C. Bandy was provisionally elected an Honorary Member of the Society, and the following as Ordinary Members: Alan Horrell Clark, Derek Ernest Coussell, Colin Thomas Cowan, John Alexander Vibert Douglas, Michael John Dumbleton, Ansel Charles Dunham, Alan Douglas Edgar, Malcolm Timothy Frost, Anthony Hall, Sa'ad el Din Hamad, Christopher Michael Bradford Henderson, Antonio Yose Rebholho Lapa,

Michael Anthony Lappin, Donald Angus Macleod, Harry Gordon Macpherson, Alastair William Nicol, Geoffrey Ronald Parslow, John Christopher Rucklidge, Adil Gidayatovich Seidov, Raymond Wey.

The death of Dr. Alexander Miers Macgregor was reported.

The resignation of Mr. W. F. Davidson was accepted.

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

It was decided that Edinburgh should be the venue of the next Society meeting outside London; one day should be devoted to reading papers; and the date in September would be later determined.

The subsequent agreement by the Royal Entomological Society of London to renew the lease of the Society's offices at 41 Queen's Gate for a further five years, subject to their retention of one room, was noted.

Dr. Campbell Smith agreed to continue as the Society's representative of the Geological Conservancy Council pending the appointment of a successor.

It was reported that the Act controlling permissible Trustee Stock had come into force and the transfer to the Miers-Spencer Memorial Fund account of the Society was proceeding.

It was proposed that the handling of orders for back numbers of Clay Minerals Bulletin should be taken over by the Society's office at 41 Queen's Gate after January 1962; and subscriptions after July 1962. Circulars would continue to be handled in Cambridge.

Dr. Gard, present at the invitation of the Council, reported in detail the progress of the Electron Optical monograph.

The merging of the Topographical and General Indexes with a separate Authors' Index to volume 15 of *Mineralogical Abstracts* was agreed. The agreement by the Mineralogical Society of Bulgaria to abstract for *Mineralogical Abstracts* was reported; and volunteers to abstract from the Clay Minerals Bulletin were requested.

The 7½ % increase in printing charges for both the *Mineralogical Magazine* and the *Mineralogical Abstracts* was reported.

For bulk orders of not less than ten monographs a 10 % discount to university departments, on application, was agreed.

It was reported that the Third General Meeting of the International Mineralogical Association would be held in Washington, D.C., from 11 April to 1 May 1962; with the possibility of a travel grant of \$100.00 from the National Science Foundation to members of the Society to promote their attendance. Dr. R. A. Howie was appointed as deputy representative to the Abstracts Commission.

The Secretary read the draft of the Annual Report of the Council for the past year and this was approved for presentation to the ensuing Anniversary Meeting.

The appointment of auditors of the Society's accounts for the year ending 31 December 1961 was postponed until the January 1962 Council meeting.

The resignations of Mrs. E. M. Castle (Publications' Assistant), and of her successor, Mrs. J. M. Kohler, were reported.

The possibility of an increase in the fees charged for the use of the apartments of the Geological Society of London was reported.

GENERAL MEETING

*Held in the Apartments of the Geological Society, Burlington House,
London W., 2 November 1961, at 3 p.m.*

Dr. A. F. HALLIMOND, Vice-President, in the Chair.

Seventy-nine Members and five Visitors were present.

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

The General Secretary read the following:

ANNUAL REPORT OF THE COUNCIL FOR 1960-1

Membership. The total membership on 31 October 1961 was 730 against 712 on 31 October 1960. Thirty-three new members have been elected during the year, ten members have resigned, and the name of one member has been removed on account of arrears of subscription. The Society has lost by death four Ordinary Members. On 31 October 1961 the membership consisted of five Honorary Members and 725 Ordinary Members, of whom 71 are Life Members; 351 members are also members of the Clay Minerals Group.

Meetings. The total attendance at the four general meetings held during the session 1960-1 was 232 members and 28 guests, giving an average of 65 per meeting. At these meetings 18 papers were read, 11 papers were taken as read, and 2 exhibits were shown.

At two meetings of the Clay Minerals Group (one held in London, and a joint meeting with the British Society of Soil Science in Cambridge) 19 papers were read: the average attendance was 67.

Publications. Three numbers of the *Mineralogical Magazine* have been issued during 1961, and the fourth (December 1961) is expected shortly. The four numbers (252-5) contain the Proceedings (16 pages), 21 papers, 10 short communications, and 19 book reviews in 324 pages with 8 plates and 69 text-figures in 61 blocks, together with the indexes in 15 pages. The December number (No. 255) will complete the volume. The index number to vol. 31 (No. 243) was distributed in September 1961. The December 1960 number of *Mineralogical Abstracts* (index number to

[continued on p. lx

MINERALOGICAL

INCOME AND EXPENDITURE ACCOUNT

A. GENERAL

| 1960 £ | INCOME | £ s. d. | £ s. d. |
|-----------|---|------------|------------|
| | Members' subscriptions— | | |
| | Annual subscriptions | 1010 19 10 | |
| | Entrance fees | 33 0 0 | |
| 1003 | <i>Mineralogical Magazine</i> | | 1043 19 10 |
| | Advertisement fees | 337 17 11 | |
| | Sales | 3070 10 6 | |
| 4365 | Investment revenue | | |
| | Interest on investments | 243 16 10 | |
| | Post Office Savings Bank interest | 20 7 0 | |
| 260 | Clay Minerals Group— | | 264 3 10 |
| | <i>Clay Minerals Bulletin</i> : | | |
| | Subscriptions | 285 17 11 | |
| | Sales, including authors' reprints | 200 6 11 | |
| 658 | Clay Minerals Monographs: | | 486 4 10 |
| | Sales— <i>X-ray Identification and Crystal Structure of Clay Minerals</i> | 317 15 8 | |
| | <i>The Differential Thermal Investigation of Clays</i> | 354 13 1 | |
| 568 | | | 672 8 9 |
| 1 | <i>Glossary of Clay Trade Names, sales</i> | | 4 2 |
| 3 | Advertisement | | 0 0 0 |
| 12 | Interest on Bank Accounts (Harpden and Cambridge) | | 12 10 11 |

£6870

£5888 0 9

B. MIERS-SPENCER

| | | | |
|---|---------------------------------|---------|-----------------|
| £ | 21 Investment revenue | £ s. d. | 20 10 8 |
| | | | <u>£20 10 8</u> |

SOCIETY

FOR THE YEAR ENDED 31 DECEMBER 1961

FUND

| 1960 | EXPENDITURE | £ s. d. | | £ s. d. | |
|--------------|--|---------|----|---------|------------------|
| £ | | | | | |
| | <i>Mineralogical Magazine</i> | | | | |
| | Nos. 252-5, and cost in excess of estimate of No. 243: | | | | |
| | Printing | 1907 | 8 | 7 | |
| | Illustrations | 143 | 19 | 1 | |
| | Authors' reprints | 124 | 18 | 4 | |
| | Distribution to members | 85 | 12 | 9 | |
| | " " subscribers | 90 | 4 | 1 | |
| 1896 | | | | | 2352 2 10 |
| 2020 | Reprinting Magazines | | | | 0 0 0 |
| 99 | Editorial Expenses | | | | 64 10 5 |
| | Contribution to <i>Mineralogical Abstracts</i> for Life and Honorary Members | | | | 77 0 0 |
| 78 | Subscriptions to International Mineralogical Association, 1961-2 | | | | 32 5 9 |
| 32 | Meeting expenses— | | | | |
| | Notices of meetings | 110 | 11 | 6 | |
| | General expenses in connexion with meetings | 34 | 17 | 6 | |
| 143 | | | | | 145 9 0 |
| | General expenses— | | | | |
| | Office rental and house expenses | 301 | 10 | 0 | |
| | Clerical assistance | 1389 | 2 | 10 | |
| | Printing and stationery | 84 | 7 | 4 | |
| | Postage and telephone | 170 | 12 | 10 | |
| | Sundry office expenses | 44 | 12 | 8 | |
| 1906 | | | | | 1990 5 8 |
| 3 | Library binding charges | | | | 0 0 0 |
| | Clay Minerals Group— | | | | |
| | <i>Clay Minerals Bulletin</i> : | | | | |
| | Printing Bulletins 24 and 25 | 259 | 15 | 6 | |
| | Authors' reprints | 31 | 6 | 0 | |
| | Editorial expenses | 10 | 0 | 0 | |
| 408 | | | | | 301 1 6 |
| | Monograph expenses | | | | 65 17 6 |
| | General expenses: | | | | |
| | Notices of meetings | 47 | 17 | 5 | |
| | Expenses in connexion with meetings | 29 | 0 | 6 | |
| | Office expenses | 175 | 2 | 4 | |
| 233 | | | | | 252 0 3 |
| 52 | Balance, being excess of income over expenditure for the year | | | | 607 7 10 |
| <u>£6870</u> | | | | | <u>£5888 0 9</u> |

MEMORIAL FUND

| | £ s. d. | |
|------------|---|-----------------|
| | Bank charges | 3 8 |
| 21 | Balance, being excess of income over expenditure for the year | 20 7 0 |
| <u>£21</u> | | <u>£20 10 8</u> |

21 March 1962

H. P. ROOKSBY }
P. G. EMBREY } Auditors

A. F. SEAGER, Hon. Treasurer

MINERALOGICAL BALANCE SHEET AS AT

A. GENERAL

| 1960 | LIABILITIES | £ s. d. | £ s. d. | £ s. d. |
|------|--|----------------|--------------|-------------------|
| £ | Fund Account— | | | |
| | Balance per Balance Sheet at 31 December 1960 | 5961 11 0 | | |
| | Add Excess of income over expenditure for year ended 31 December 1961 | 607 7 10 | | |
| | Composition fee received | 60 0 0 | | |
| | <i>Less</i> Depreciation on office furniture and equipment | <u>102 6 9</u> | 6628 18 10 | |
| | Transfer to <i>Mineralogical Abstracts</i> Fund | 876 3 3 | 978 10 0 | |
| 5961 | | | | 5650 8 10 |
| 1178 | Publications Fund | | | 1177 13 9 |
| | Subscriptions, &c., received in advance— | | | |
| | Members' subscriptions and entrance fees | | 118 18 4 | |
| | Subscriptions to <i>Clay Minerals Bulletin</i> | | 3 15 0 | |
| 111 | Sundry creditors— | | | 122 13 4 |
| | Oxford University Press for Magazine No. 255 | | 483 10 0 | |
| | " " " " Authors' reprints, No. 254. | | 41 9 6 | |
| | Royal Entomological Society for house expenses | | 31 18 7 | |
| | Editor for sundry editorial expenses | | 114 10 5 | |
| | Royal Society, for loan (Parliamentary Grant-in-aid for scientific publications) | | 750 0 0 | |
| | Sundry expenses | | <u>1 7 0</u> | |
| 2260 | | | | 1422 15 6 |
| | | | | <u>£8373 11 5</u> |

B. MIERS-SPENCER

| | | | |
|-----|---|-----------------|------------------|
| £ | Fund Account— | £ s. d. | £ s. d. |
| | Balance per Balance Sheet at 31 December 1960 | 839 2 10 | |
| | Add Excess of income over expenditure for the year ended 31 December 1961 | 20 7 0 | |
| 839 | | <u>859 9 10</u> | |
| | | | <u>£859 9 10</u> |

SOCIETY

31 DECEMBER 1961

FUND

| 1960 £ | ASSETS | £ s. d. | £ s. d. |
|--------------|---|-----------|-------------------|
| | Office furniture and equipment— | | |
| | Original cost | 1023 7 6 | |
| | Less depreciation | 602 7 7 | |
| 523 | | | 420 19 11 |
| | 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 | |
| | £173. 6s. 6d. 3 % British Transport Stock 1978-88 | 127 1 3 | |
| | £275. 2½ % Consolidated Stock | 169 2 6 | |
| | £261. 12s. 6d. 3½ % Treasury Stock 1977-80 | 244 8 3 | |
| | £1120. 16s. 7d. 4½ % British Electricity Stock 1967-9 | 1065 17 3 | |
| 5889 | | | 5888 12 0 |
| | Note:—The total market value of the above investments at 31 December 1961 was £4497. 11s. 8d. | | |
| | Deposits— | | |
| 815 | Balance with Post Office Savings Bank | | 835 3 10 |
| | Subscriptions, &c., in arrears— | | |
| | Members' subscriptions and entrance fees | 172 18 0 | |
| | Subscriptions to <i>Clay Minerals Bulletin</i> | 22 10 0 | |
| 70 | | | 195 8 0 |
| | Sundry debtors— | | |
| | Purchasers of <i>Clay Minerals Bulletin</i> and authors' reprints <i>Mineralogical Abstracts</i> , for loan from Mineralogical Society of Great Britain | | 62 10 0 |
| 1479 | | | 0 0 0 |
| | Cash— | | |
| | Coutts & Co., London | 403 19 1 | |
| | Barclays Bank, Harpenden | 528 0 8 | |
| | Cambridge and District Trustee Savings Bank | 10 15 1 | |
| | Cash in hand, London | 20 0 0 | |
| | " " " Harpenden | 8 2 10 | |
| 734 | | | 970 17 8 |
| <u>£9510</u> | Note:—The value of the Society's library and stock of publications is not included in the above assets. | | <u>£8373 11 5</u> |

MEMORIAL FUND

| £ | | £ s. d. | £ s. d. |
|-------------|---|---------|------------------|
| | Investments (at cost)— | | |
| | £504. 17s. 4d. 3½ % War Stock 1952 | 439 7 0 | |
| 639 | £208. 11s. 4½ % British Electricity Stock 1967-9 | 200 0 0 | |
| | | | 639 7 0 |
| | Note:—The total market value of the above investments at 31 December 1961 was £456. 18s. 5d. | | |
| 200 | Cash—Coutts & Co., London | | 220 2 10 |
| <u>£839</u> | | | <u>£859 9 10</u> |

21 March 1962

H. P. ROOKSBY }
P. G. EMBREY } Auditors

A. F. SEAGER, Hon. Treasurer

MINERALOGICAL SOCIETIES OF
MINERALOGICAL
INCOME AND EXPENDITURE ACCOUNT

| 1960 | INCOME | £ s. d. | £ s. d. |
|------|--|------------|----------|
| £ | Subscriptions— | | |
| | Mineralogical Society of America | 555 18 11 | |
| | Mineralogical Society of Great Britain | 745 0 0 | |
| 989 | | 1300 18 11 | |
| 1910 | Sales | | 1905 9 3 |

| | | | |
|------|--|-------|------------|
| 1487 | Balance, being excess of expenditure over income | | 316 10 6 |
| | | £4386 | £3522 18 8 |

BALANCE SHEET AS AT

| £ | LIABILITIES | £ s. d. | £ s. d. | £ s. d. |
|----|---|----------|------------|----------|
| | Fund Account— | | | |
| | Balance per Balance Sheet at 31 December 1960 | 51 14 7 | | |
| | Add Capital contribution from Mineralogical Society of America | 876 3 3 | | |
| | Capital contribution from Mineralogical Society of Great Britain | 876 3 3 | | |
| | Less Depreciation on office furniture and equipment | 11 14 3 | 1804 1 1 | |
| | Repayment of loan from Mineralogical Society of Great Britain | 1350 0 0 | | |
| | Excess of expenditure over income for year ended 31 December 1961 | 316 10 6 | 1678 4 9 | |
| 52 | | | | 125 16 4 |
| 67 | Subscriptions received in advance | | | 69 0 0 |
| | Sundry creditors— | | | |
| 17 | Royal Entomological Society for house expenses | | 15 19 4 | |
| | Metcalf and Cooper, for <i>Abstracts</i> , Vol. 14, No. 8 | | 889 3 1 | |
| | | | | 905 2 5 |
| | | £136 | £1099 18 9 | |

AMERICA AND GREAT BRITAIN

ABSTRACTS

FOR THE YEAR ENDED 31 DECEMBER 1961

| 1960 £ | EXPENDITURE | s. d. | £ s. d. |
|--------------|--|-----------|-------------------|
| | <i>Mineralogical Abstracts—</i> | | |
| | Vol. 14, No. 8; Vol. 15, Nos. 1 and 2: | | |
| | Printing | 2107 13 3 | |
| 3183 | Distribution | 178 8 7 | |
| | | <hr/> | 2286 1 10 |
| | Editorial expenses— | | |
| | Editor's Honorarium | 400 0 0 | |
| | Editorial Assistant's stipend | 519 10 4 | |
| 970 | General editorial expenses | 66 18 4 | |
| | | <hr/> | 986 8 8 |
| | Office expenses— | | |
| | Office rental and house expenses | 144 18 9 | |
| | Printing and stationery | 81 9 3 | |
| | Postage | 15 17 5 | |
| | Sundry office expenses | 8 2 9 | |
| | | <hr/> | 250 8 2 |
| 233 | | | |
| <u>£4386</u> | | | <u>£3522 18 8</u> |

31 DECEMBER 1961

| £ | ASSETS | s. d. | £ s. d. |
|----|--------------------------------------|---------|-----------|
| | Office furniture and equipment— | | |
| | Original cost | 117 2 7 | |
| 94 | Less Depreciation | 35 2 9 | |
| | | <hr/> | 81 19 10 |
| 29 | Subscriptions in arrears | | 107 0 0 |
| 13 | Cash—Courtts & Co., London | | 910 18 11 |

£136

£1099 18 9

21 March 1962

H. P. ROOKSBY }
P. G. EMBREY } Auditors

A. F. SEAGER, Hon. Treasurer

vol. 14) was published in October 1961: it contains errata, addenda, and topographical and alphabetical indexes and consists of 82 pages of over 18 000 page references to 4161 abstracts and 119 book notices. Two numbers of volume 15 (Nos. 1 and 2) have been issued and contain 1427 abstracts or citations and 44 book notices in 168 pages. The third number (September 1961) should appear in November and contains about 680 abstracts and notices.

Two numbers (24 and 25) of the *Clay Minerals Bulletin* have been issued during the year. The X-ray monograph is expected to be published in November 1961, and work is proceeding on the Electron Optical monograph, and the Clay Mineralogy of British Sediments.

Financial. The accounts for the calendar year 1960 are published in *Mineralogical Magazine* No. 253. During the year income from the General Fund exceeded expenditure by £52. 2s. 7d. The excess of assets (exclusive of the Society's library and stock of publications) over liabilities at 31 December 1960 was £6800. 13s. 10d. against £6830. 8s. 4d. at the close of 1959.

Three numbers of the *Mineralogical Magazine* for 1961 have appeared, the first two of which cost £1073. 7s. 2d.; and two numbers of *Mineralogical Abstracts* published at a cost of £1395. 7s. 3d. The expense of reprinting two numbers of the *Mineralogical Magazine* has amounted to £269. 4s. 4d.

Sales of publications so far during 1961 are as follows: *Mineralogical Magazine* £2888. 2s. 0d., *Mineralogical Abstracts* £1794. 6s. 0d., Monographs £316. 13s. 8d.

The balances at the Society's Bankers and in the Post Office Savings Bank on 31 October 1961 were: General Fund £5222. 11s. 7d. Miers-Spencer Memorial Fund £211. 7s. 11d.

On the proposal of Mr. P. Embrey, seconded by Dr. W. S. MacKenzie, 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. S. O. Agrell, and carried with acclamation.

The President read the following list of Officers and Council elected for the session 1961-2 in accordance with by-law 20:

President. Prof. L. R. Wager, M.A., Sc.D., B.Sc., F.R.S.

Vice-Presidents. Dr. G. F. Claringbull, B.Sc., Ph.D., A.Inst.P., F.G.S.; Dr. A. F. Hallimond, M.A., Sc.D., F.G.S.

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

General Secretary. Dr. J. R. Butler, M.A., Ph.D.

Foreign Secretary. Dr. W. Campbell Smith, C.B.E., M.C., T.D., M.A., Sc.D., F.G.S.

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

Editor of Mineralogical Abstracts. Dr. J. Phemister, M.A., D.Sc., F.R.S.E., F.G.S.

Ordinary Members of the Council

| | |
|---|---|
| Prof. W. A. Deer, M.Sc., Ph.D., F.G.S. | Dr. R. M. S. Perrin, M.A., B.Sc., Ph.D. |
| Prof. K. C. Dunham, D.Sc., Ph.D., S.D., M.I.M.M., F.G.S., F.R.S. | Mr. H. P. Rooksby, B.Sc., F.Inst.P. |
| Mr. A. W. G. Kingsbury, F.G.S. | Prof. J. H. Taylor, M.A., B.Sc., Ph.D., F.G.S., F.R.S. |
| Dr. W. S. MacKenzie, M.A., B.Sc., Ph.D., F.R.S.E. | Dr. W. J. Wadsworth, M.A., D.Phil., F.G.S. |
| Dr. A. P. Millman, Ph.D., D.I.C., A.R.S.M., B.Sc., F.G.S. | Prof. F. Walker, M.A., Ph.D., D.Sc., F.R.S.E., F.G.S. |
| Dr. I. D. Muir, B.A., Ph.D., F.G.S. | Dr. J. Zussman, M.A., Ph.D. |

A vote of thanks to the retiring Members of Council was proposed by Dr. S. O. Agrell and seconded by Dr. W. S. Pitcher.

The following exhibit was shown:

Coffinite from various *in situ* localities in South-west England: by Dr. A. G. Darnley.

The following papers were read and discussed:

1. Pantelleritic liquids and their phenocrysts: by Mr. I. S. E. Carmichael (vol. 33, p. 86).

2. Beryllium minerals in Cornwall and Devon: helvine, genthelvite, and danalite: by Mr. A. W. G. Kingsbury (vol. 32, p. 921).

3. Quartz after tridymite in an acid intrusion from Mull: by Dr. R. S. Skelhorn (vol. 33, p. 138).

The following papers were taken as read:

1. Heat treatment of chevkinite and perrierite: by Mr. J. Lima-de-Faria (vol. 33, p. 42).

2. Twenty-second list of new mineral names: by Dr. M. H. Hey (vol. 32, p. 941).

3. The age of fergusonite from the Jos Area, Northern Nigeria: by Dr. A. G. Darnley and Messrs. G. H. Smith, T. R. D. Chandler, and D. F. Dance (vol. 33, p. 48).

4. Ferrodiorite from the Isle of Skye: by Prof. L. R. Wager and Dr. E. A. Vincent (vol. 33, p. 26).
