

PROCEEDINGS OF THE FORTY-FIRST ANNUAL MEETING  
OF THE MINERALOGICAL SOCIETY OF AMERICA  
AT DENVER, COLORADO

GEORGE SWITZER, *Secretary*.

The forty-first meeting of the Society was held on October 31–November 2, 1960, at the Denver Hilton Hotel, Denver, Colorado. The scientific sessions were integrated with those of the Geological Society of America and other affiliated Societies. A total of 43 scientific sessions were held. Of these two were devoted to mineralogy, one to crystallography, one to petrology, and four to geochemistry, at which 114 papers were presented.

The annual luncheon of the Society on November 1 was attended by 200 fellows, members and guests. Following the luncheon the eighteenth presentation of the Roebling Medal was made to T. F. W. Barth and the tenth presentation of the Mineralogical Society of America Award was made to Donald L. Graf.

On the afternoon of November 1, the Society was addressed by Retiring President Joseph Murdoch on the subject *Crestmore—Past and Present*. The annual business meeting was held on the morning of November 2, at which reports were given by the Secretary, Treasurer, and Editor. An announcement of an International Mineralogical Association meeting to be held in Washington, D. C., in April 1962 was made by International Mineralogical Association President, D. J. Fisher.

ACTION OF THE 1960 COUNCIL

The 1960 Council of the Society met on the afternoon and evening of October 30 and the morning of October 31 for a total of seven hours.

*Mineralogical Abstracts*. The International Mineralogical Association Abstracts Commission met in Copenhagen in August 1960 to discuss the ultimate goal of having an international abstracts journal. The most promising plan envisages the extension of *Mineralogical Abstracts*, presently owned jointly by the Mineralogical Society of America and the Mineralogical Society of Great Britain. To this end the following note was approved by the Councils of both societies, to be circularized by the Abstracts Commission to all known national societies or associations:

During the Copenhagen meeting of the International Mineralogical Association the new Commission on Abstracts discussed the organization of a comprehensive journal of mineralogical abstracts.

The most promising plan envisages the extension of *Mineralogical Abstracts*, at present owned jointly by the Mineralogical Society of Great Britain and the Mineralogical Society of America. With the approval of the Councils of both these societies, the Commission is sending this letter to all known national mineralogical societies in an effort to obtain their co-operation.

I. *Mineralogical Abstracts* could be readily enlarged if more abstracts covering different countries were available. Regional or national societies can secure for all their members a 50% reduction in the cost by agreeing to contribute free of charge English abstracts comprising a comprehensive coverage of papers appearing in their region; they need undertake no other responsibility. Members of such societies would pay \$4.50 (U. S.) for personal annual subscription to *Mineralogical Abstracts* compared with the full subscription rate of \$9.00. National mineralogical societies in Canada, Japan, Norway and Switzerland are already partaking in this scheme.

II. The question of a wider ownership of *Mineralogical Abstracts* is being considered but the British and American societies feel that it would be premature to extend

ownership prior to 1963. They feel that more experience of the present financial arrangement would be essential to devise an equitable scheme. Both the British and American societies put up appreciable capital sums in order to start *Mineralogical Abstracts* (as from vol. 14); moreover they have agreed to stand losses that *Mineralogical Abstracts* might incur. Members of the British society pay an annual subscription of the equivalent of \$3.00 for *Mineralogical Abstracts* and this is included in their subscription to the *Mineralogical Magazine*, i.e. they cannot contract out of buying *Mineralogical Abstracts*. Members of the American society can purchase *Mineralogical Abstracts* for \$3.00 which may be included in their dues at their discretion. The subscriptions appropriate to wider ownership would depend considerably on the number of participating countries.

*Awards.* The Council voted that in 1961 the Roebing Medal be awarded to Paul Ramdohr, and the Mineralogical Society of America Award be presented to Joseph V. Smith.

*Election of Fellows.* In 1960 there were 49 candidates for Fellow placed on the ballot. Following past procedures, the Secretary had printed a booklet giving biography and bibliography of each candidate. This required a 79 page booklet, and even though it was typed and produced by photo offset, the cost of preparing the booklet was nearly \$700. The Secretary suggested that in the future a method patterned after that used by the Geological Society of America and the Society of Economic Geologist be followed: The following form was suggested and approved by the Council:

To the Fellows of the Society:

The Secretary sends you herewith vita on the candidates on the enclosed ballot for election as Fellows. The candidates have been approved by the Council on recommendation by the Nominating Committee for Fellows. The complete bibliography of any candidate may be obtained by writing to the Secretary not later than August 1, 1961.

The vita on each candidate will consist of a brief biography, number of publications and general nature of major publications, and names of sponsors. This new short form will be followed in presenting candidates for election in 1961.

*Financial Advisory Committee.* The report of the Committee was accepted. The Council voted to drop the matter, raised the preceding year, of a commercial audit of the Society's books.

*Membership List Publication.* The Council voted that the Executive Committee bring to the 1961 Council recommendations for publishing the membership list separately by photo offset from addressograph plates.

*Mistake in by-Laws.* In November 1951 the Council recommended the following amendment in Article II, Section 3 of the By-Laws, and voted that it be placed on the ballot in 1952 for approval by the membership:

Fellows and members who have reached the age of 70 years, or have reached the official retirement age of the institution in which they have been serving, and have paid annual dues for 30 years, shall be exempt from further payment of dues but retain all rights and privileges. (From Proceedings, *Am. Mineral.*, 37, 276, 1952.)

This above item appeared on the ballot distributed to the membership in 1952, but the result of the vote does not appear in the Proceedings of the following year or in subsequent years, nor in the Secretary's reports to the Council in subsequent years.

There has been no authority for any change in the wording of Article II, Section 3 of the By-Laws between the time that it appeared on the ballot in 1952 and in the revision of the By-Laws approved by the Council in 1957 and printed in 1958 (*Am. Mineral.*, 43, 611-614). Therefore, this section in the 1958 printing of the By-Laws is incorrect.

The Council feels that the simplest way to correct the mistake is to place Article II, Section 3 of the By-Laws, as originally worded and recommended by the Council in 1951, and (probably) voted by the membership in 1952, on the 1961 ballot to be reaffirmed and thereby annul the error in the wording of this section in the revised By-Laws approved in November 1958. The Council, therefore, voted that the above proposed change be placed on the 1961 ballot for vote by the membership.

*Use of Mailing List.* The Council voted that the present practice be continued of selling the MSA mailing list to concerns such as book publishers, if by so doing a service would be rendered to the membership, and that the charge to be made for the use of the list be left to the discretion of the Treasurer.

*Storage of Back Issues of the American Mineralogist.* The Council was informed by the Editor that the stock of most of the back issues of *The American Mineralogist*, now stored at the University of Michigan, must be moved within a year. The Council voted that the back issues be moved to Silver Spring, Maryland, and that storage, sales, and distribution of back issues be taken over by the Treasurer's office.

*Funds for Travel to Annual Meeting.* The Secretary pointed out that the 1946 Council authorized travel expenses of five cents per mile for the Secretary, Treasurer, and Editor to attend the annual meeting of the society. The Council reaffirmed this past Council action.

*General Interest Articles in The American Mineralogist.* Richard H. Jahns reported that he has compiled a list of 22 famous mineral localities, and is ready to inaugurate a series of articles of professional quality on famous mineral localities. The Council reiterated its approval of the project, and voted that Dr. Jahns and the Editor be empowered to use their best judgment in the selection of articles.

#### ACTION BY THE 1961 COUNCIL

*Editor of The American Mineralogist.* The Council appointed Lewis S. Ramsdell Editor of *The American Mineralogist* for the year 1961.

*Co-Editor of The American Mineralogist.* The Editor requested that the Council appoint a Co-Editor, to begin work immediately, and to take over full editorship of the journal at the end of 1961. The immediate duties of the Co-Editor would be to receive and evaluate all manuscripts, send them to referees, and to be responsible for all book reviews. These two functions represent about one-third of the editorial work load. The Council appointed E. W. Heinrich Co-Editor of *The American Mineralogist* for the year 1961.

*American Geological Institute.* The Council voted that the Mineralogical Society of America contribute no more than \$500 to the American Geological Institute in 1961, at the will of the Executive Committee.

*International Mineralogical Association.* The Council voted that \$150.00 be paid during 1961 as the Society's dues to the *International Mineralogical Association*.

*Ten Year Index of The American Mineralogist.* The Council voted that Joseph Murdoch be appointed Chief Indexer, to begin preparation of the next 10-year index of *The American Mineralogist*, for volumes 41-50.

*International Mineralogical Association Meeting in Washington, D. C., in Spring 1962.* The date of the meeting was set for April 18-20, 1962, with field excursions before and after the meeting. The Council voted that Alvin Van Valkenburg be appointed General Chairman of the local committee.

*Archivist.* The Society has never had an Archivist, and there is increasing danger as years pass that records relating to the Society's founding and early history will become lost. The Council voted that George T. Faust be appointed Archivist, and that he be requested to begin the task of assembling all pertinent papers and information.

*Committee Appointments.* President Osborn made the following committee appointments, which were approved by the Council:

1961 COMMITTEES OF THE MINERALOGICAL SOCIETY OF AMERICA

*Nominating Committees for Fellows*

R. Roy, <i>Chairman</i>	1960-62
E. N. Cameron	1959-61
J. L. Kulp	1959-61
C. F. Park, Jr.	1960-62
W. S. MacKenzie	1961-63
R. S. Cannon	1961-63

*Roebbling Medal Committee*

R. M. Garrels, <i>Chairman</i>
C. A. Anderson
H. L. James
H. Kuno
C. E. Tilley
G. Tunell

*Program Committee*

H. Winchell
J. W. Peoples, <i>alternate</i>

*Nominating Committee for Officers*

C. L. Christ, <i>Chairman</i>
J. C. Griffiths
H. H. Hess
A. L. Howland
H. F. McMurdie
R. G. Coleman

*Auditing Committee*

A. Van Valkenburg, <i>Chairman</i>
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M. L. Lindberg
G. L. Davis

*Nomenclature Committee*

J. V. Smith, <i>Chairman</i>	1959-61
G. Tunell	1959-61
G. T. Faust	1960-62
A. Pabst	1960-62
M. Fleischer	1961-63
C. Frondel	1961-63

*MSA Award Committee*

E. W. Nuffield, <i>Chairman</i>
W. F. Bradley
I. H. Milne
K. J. Murata
H. F. W. Taylor
J. B. Thompson

*Financial Advisory Committee*

E. P. Henderson, <i>Chairman</i>	1959-61
A. Montgomery	1960-62
W. T. Pecora	1961-63

*Endowment Committee*

C. B. Slawson
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*Advisory Committee on Russian Translations to the American Geological Institute*

Earl Ingerson, <i>Chairman</i>
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*Representatives*

*American Geological Institute*

Board of Directors:	
R. M. Grogan	1960-61
J. F. Schairer	1961-62
Government Relations Committee:	
P. F. Kerr	1959-61

*International Mineralogical Association*

Representative:

A. Pabst

Members of Commissions:

Abstracts—H. Winchell

Data—G. T. Faust

New Minerals and New Mineral Names—D. McConnell  
 Museums—G. Switzer  
 Teaching of Mineralogy—C. S. Hurlbut, Jr.

*American Association for the Advancement of Science*

P. F. Kerr
E. E. Wahlstrom

*National Research Council*

W. F. Bradley	1960-63
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*Nominations for Officers for 1962.* The following slate was proposed by the Nominating Committee and approved by the Council:

President: Ian Campbell, California Division of Mines, San Francisco, Calif.  
 Vice-President: Cornelius S. Hurlbut, Jr., Harvard University, Cambridge, Mass.  
 Secretary: George Switzer, U. S. National Museum, Washington, D. C.  
 Treasurer: Marjorie Hooker, U. S. Geological Survey, Washington, D. C.  
 Councilors: (1962-64, two to be elected)

R. B. Ferguson, University of Manitoba, Winnipeg, Canada  
 Harold L. James, U. S. Geological Survey, Menlo Park, Calif.  
 Francis J. Turner, University of California, Berkeley, Calif.  
 Hatten S. Yoder, Jr., Geophysical Laboratory, Washington, D. C.

#### REPORT OF THE SECRETARY

*To the Council of the Mineralogical Society of America*

##### ELECTION OF OFFICERS AND FELLOWS

Nine hundred and forty-nine ballots were cast in the election of officers, 131 by Fellows and 818 by Members. The officers elected to serve in 1961 are:

*President:* E. F. Osborn, The Pennsylvania State University, University Park, Pennsylvania  
*Vice-President:* Ian Campbell, State Division of Mines, San Francisco, California.  
*Secretary:* George Switzer, U. S. National Museum, Washington, D. C.  
*Treasurer:* Marjorie Hooker, U. S. Geological Survey, Washington, D. C.  
*Councilors:* (1961-1963) Robert M. Garrels, Harvard University, Cambridge, Massachusetts.

O. F. Tuttle, The Pennsylvania State University, University Park, Pennsylvania.

According to the provisions of the Constitution, the following have been elected to fellowship:

John W. Adams, U. S. Geological Survey, Denver, Colorado.  
 George Baker, C.S.I.R.O., University of Melbourne, Parkville N. 2., Victoria, Australia.  
 Fernand A. J. Blondel, 18 rue Leonardo da Vince, Paris, France.  
 Esther W. Claffy, Naval Research Laboratory, Washington, D. C.  
 Robert G. Coleman, U. S. Geological Survey, Menlo Park, California.  
 William A. Deer, The University, Manchester, England.  
 Reynolds M. Denning, The University of Michigan, Ann Arbor, Michigan.  
 F. Donald Eckelmann, Brown University, Providence, Rhode Island.  
 Judith Weiss Frondel, 20 Beatrice Circle, Belmont, Massachusetts.  
 José M. Fuster, Museo Nacional Ciencias Naturales, Madrid, Spain.  
 William S. Fyfe, University of California, Berkeley, California.  
 John C. Hathaway, U. S. Geological Survey, Denver, Colorado.  
 Norman Herz, U. S. Geological Survey, A.P.O. 676, New York, N. Y.  
 Allen Van Heyl, Jr., U. S. Geological Survey, Washington, D. C.  
 Sven Hjelmqvist, The University, Lund, Sweden.  
 Floyd A. Hummel, The Pennsylvania State University, University Park, Pennsylvania.  
 Horst H. Kedesdy, Signal Research and Development Laboratory, Fort Monmouth, New Jersey.  
 Arthur W. G. Kingsbury, University Museum, Oxford, England.

Jack A. Kohn, Signal Research and Development Laboratory, Fort Monmouth, New Jersey.

James F. McAllister, U. S. Geological Survey, Menlo Park, California.

James L. McAtee, Jr., Baylor University, Waco, Texas.

\*Graham S. MacKenzie, University of New Brunswick, Fredericton, New Brunswick, Canada.

Robert C. Mackenzie, Macaulay Institute for Soil Research, Aberdeen, Scotland.

Henry G. Midgley, Building Research Station, Harpenden Herts, England.

Louis Moyd, 136 Park Ave., Yonkers, New York.

Kaarlo J. Neuvonen, University of Turku, Turku, Finland.

Ernest H. Nickel, Department of Mines and Technical Surveys, Ottawa, Canada.

Ronald W. B. Nurse, Building Research Station, Harpenden, Herts, England.

Ke'ichi Omori, Tohoku University, Sendai, Japan.

Fred D. Ordway, Jr., National Bureau of Standards, Washington, D. C.

James Phemister, 19 Grange Terrace, Edinburgh, Scotland.

Alan T. Prince, Department of Mines and Technical Surveys, Ottawa, Canada.

Donald H. Richter, U. S. Geological Survey, Hawaii National Park, Hawaii.

George R. Rigby, Canadian Refractories, Ltd., Grenville, Quebec, Canada.

Gershon D. Robinson, U. S. Geological Survey, Denver, Colorado.

Harold P. Rooksby, The General Electric Company, Ltd., Wembley, Middlesex, England.

Chalmer J. Roy, Iowa State University, Ames, Iowa.

Edgar R. Segnit, C.S.I.R.O., Highett, Victoria, Australia.

Thomas W. Stern, U. S. Geological Survey, Washington, D. C.

Lorin R. Stieff, U. S. Geological Survey, Washington, D. C.

William Uytenbogaardt, Free University, Amsterdam, Netherlands.

John S. Vhay, U. S. Geological Survey, Spokane, Washington.

Ewart A. Vincent, University Museum, Oxford, England.

Oleg von Knorring, The University, Leeds, England.

Charlotte M. Warshaw, The Pennsylvania State University (3703 Stewart Drive, Chevy Chase, Maryland).

James White, University of Sheffield, Sheffield, England.

Ray E. Wilcox, U. S. Geological Survey, Denver, Colorado.

Allan F. Wilson, University of Queensland, St. Lucia, Brisbane, Australia.

\* Deceased

## CHANGE IN BY-LAWS

A proposed change in Article II of the By-Laws was passed by a vote of 640 for and 138 against. Article II of the By-Laws now stands as follows:

## Article II—Dues

- Section 1. The annual dues for members and fellows shall be eight dollars (\$8) payable in January. Members who are students shall pay one-half the dues of other members.
- Section 2. No person shall be accepted as a fellow of the Mineralogical Society of America unless he pays dues for the year within three months after notification of his election.

## MEMBERSHIP STATISTICS

The membership of the society continues to grow, as shown in the following table:

	November 1, 1960		
	1958	1959	1960
Honorary Fellows . . . . .	0	3	4
Fellows . . . . .	360	376	419
Members . . . . .	1,185	1,501	1,623
	<hr/>	<hr/>	<hr/>
	1,545	1,880	2,046

During 1960 the society lost through death eight Fellows: Harold L. Alling, Ciro Andreatta, Harold E. Buckley, Burnham S. Colburn, Austin B. Edwards, Guerdon S. Holden, John T. Lonsdale, and Graham S. MacKenzie.

Respectfully submitted,  
GEORGE SWITZER, *Secretary*

## REPORT OF THE TREASURER FOR 1960

(Year ending July 31, 1960)

*To the Council of the Mineralogical Society of America:*

## SUMMARY STATEMENT

Cash on hand, August 1, 1959 . . . . .	\$ 1,931.15	
Receipts, August 1, 1959–July 31, 1960 . . . . .	43,567.02	
Total . . . . .	\$ 45,498.17	\$ 45,498.17
Disbursements, August 1, 1959–July 31, 1960 . . . . .	\$ 34,924.09	
Transfer to capital . . . . .	3,515.79	
Cash on hand, July 31, 1960 . . . . .	7,058.29	
Total . . . . .	\$ 45,498.17	45,498.17
Assets, July 31, 1960		
Cash on hand (as shown above) . . . . .	\$ 7,058.29	
Capital: Securities (market value) . . . . .	151,285.00	
Endowment Fund cash . . . . .	403.50	
Total . . . . .	\$158,746.79	158,746.79

RECEIPTS

Dues		
Fellows . . . . .	\$ 1,546.14	
Members . . . . .	6,875.52	\$ 8,421.66
Publications		
Geological Society of America grant . . . . .	8,000.00	
Subscriptions to <i>American Mineralogist</i> . . . . .	7,655.80	
Sale of reprints . . . . .	3,285.78	
Sale of back numbers . . . . .	2,706.87	
Sale of Index, vols. 31-40 . . . . .	852.00	
vols. 21-30 . . . . .	336.40	
vols. 1-20 . . . . .	176.20	
Advertising . . . . .	1,779.13	
Mailing list . . . . .	80.24	24,872.42
Endowment Fund		
Dividends and interest . . . . .	7,214.61	
Fifty-Plus Committee . . . . .	2,520.00	
Contributions . . . . .	225.00	
Life Memberships . . . . .	200.00	10,159.61
Special Funds		
Museum Fund . . . . .	100.00	100.00
Exchange credits and collections . . . . .	13.33	13.33
Total receipts . . . . .		<u>\$43,567.02</u>

DISBURSEMENTS

Honoraria		
Secretary (August 1, 1958-July 31, 1960) . . . . .	\$ 750.00	
Treasurer (November 15, 1958-July 31, 1960) . . . . .	677.09	
Editor (April 1, 1959-March 31, 1960) . . . . .	750.00	\$ 2,177.09
Publications		
<i>American Mineralogist</i> (July 1959-April 1960) . . . . .	22,616.03	
Reprints . . . . .	3,570.40	
Program and abstracts . . . . .	591.36	
Microtext of out-of-print issues . . . . .	348.04	
Purchase of out-of-print issues . . . . .	105.00	
National Science Foundation refund on index sales, May 1959-April 1960 . . . . .	744.50	
Postage and express . . . . .	444.01	
Assistance . . . . .	153.55	
Supplies . . . . .	71.77	
Mailing list charge . . . . .	26.37	
Subscription refunds . . . . .	23.30	28,694.33



Office Expense			
Secretarial and clerical assistance.....	\$	895.40	
Officers' travel.....		48.00	
Printing.....		1,102.88	
Supplies.....		431.85	
Postage.....		705.04	
Telephone and telegrams.....		25.57	\$ 3,208.74
International Mineralogical Association, 1960-61.....		150.00	
American Geological Institute, 1959-60.....		500.00	650.00
Roebbling Medal (1959).....		151.63	
MSA Award certificate.....		9.00	160.63
Checks returned.....		33.30	33.30
Total disbursements.....			\$34,924.09

Amount	ENDOWMENT FUND				
		Security	Cost	Value <sup>1</sup>	Income <sup>2</sup>
	<i>Bonds</i>				
6M	Atlantic Coast Line, 4½.....		\$ 5,257.50	\$ 5,985	270.00
5M	New York Central, 5.....		4,300.00	3,438	250.00
5M	Southern Railway, 5.....		5,743.75	5,200	250.00
			\$ 15,301.25	\$ 14,623	\$ 770.00
	<i>Preferred stocks</i>				
150	Fairbanks Whitney.....		\$ 4,487.50	\$ 3,431	\$ 480.00 <sup>3</sup>
60	Jones and Laughlin, A5.....		4,987.50	5,820	300.00
40	Potomac Electric Power, 2.44.....		2,000.00	1,940	97.60
200	Southern California Edison, 4.88.....		5,250.00	5,000	244.00
500	Union Pacific, 4.....		4,570.25	4,063	200.00
55	United States Steel, 7.....		6,946.20	7,865	385.00
50	Virginia Electric Power Co., 5.....		5,942.50	5,138	250.00
			\$ 34,183.95	\$ 33,257	\$1,956.60

<sup>1</sup> Approximate market value, July 31, 1960.

<sup>2</sup> Fiscal year ending July 31, 1960, except where noted.

<sup>3</sup> Includes accumulated dividend.

<i>Common Stocks</i>			
249	American Telephone and Telegraph	\$ 11,255.98	\$ 22,380 \$ 821.72
50	Boston Insurance	1,500.00	1,694 90.00
100	Buckeye Steel Castings	3,800.00	2,675 150.00
177	Chase Manhattan Bank	11,281.25	10,797 181.20 <sup>4</sup>
50	Chesapeake and Ohio Railway	2,368.75	2,944 200.00
300	Columbia Gas	5,174.72	5,963 265.00 <sup>5</sup>
100	Columbus and Southern Ohio	2,087.50	4,725 165.00
150	Denison Mines, Ltd.	3,096.00	1,418 134.51
180	Diana Stores	2,800.30	3,150 180.00
210	Greyhound Corporation	2,300.00	4,645 210.00
261	Kroger Company	2,034.03	8,287 274.07
50	Phelps Dodge Corporation	1,975.00	2,425 150.00
100	Pittsburgh and West Virginia	2,787.50	1,238 —
100	Plymouth Cordage	4,750.00	5,750 290.00
350	Potomac Electric Power Co.	5,066.73	10,500 451.50
50	Public Service Electric and Gas	1,586.40	2,000 90.00
—	Sinclair Oil Corporation	—	— 150.00 <sup>6</sup>
100	Southern Natural Gas	3,600.00	3,688 200.00
50	Spencer Kellogg	1,258.33	757 40.00
175	Standard Oil of New Jersey	1,761.65	7,131 393.75
60	United Fruit	3,067.50	1,238 15.00 <sup>7</sup>
—	U. S. Playing Card	—	— 30.00 <sup>8</sup>
	Merrill Lynch (interest)		6.26
		\$ 73,551.64	\$103,405 \$4,488.01
	Total	\$123,036.84	\$151,285 \$7,214.61
	Cash balance, Endowment Fund account, Riggs National Bank		403.50

<sup>4</sup> Additional shares purchased December 1959 and July 1960.

<sup>5</sup> Additional shares purchased December 1959.

<sup>6</sup> August 1959–July 1960. Sold in July 1960.

<sup>7</sup> One quarter dividend only.

<sup>8</sup> One quarter dividend. Sold in October 1959.

The summary statement and tables of figures show that the financial standing of the society has shown progress during the year and is satisfactory at the present time. We are faced, however, with several situations which bear directly on both our income and expenditures, and the solutions of some of these are not immediately evident. The comments that follow will elaborate the figures in the tables and relate them to the circumstances as they affect both our present and future position.

*Income and Expense*

The income is derived from three principal sources, either directly or from activity concerned with them.

Source	Amount	Per Cent 1959–60	Per Cent 1958–59
Dues	\$ 8,421.66	19.4	18.2
Publication program	24,872.42	57.2	56.2
Endowment Fund	10,159.61	23.4	25.6

The percentages of income from these sources remain substantially the same as the previous year. The amount received in dues is \$1000.00 more than last year, reflecting the continued rise in membership. The total agrees very well with the amount to be expected from a membership of 2000. The income from various parts of the publication program is apportioned about the same as last year. About 30% is derived from the sale of subscriptions to *The American Mineralogist*, amounting this year to \$7655.80. At the present time, 1325 copies are distributed on a paid subscription basis; 517 are despatched within the United States to all fifty states and Puerto Rico; the other 808 are sent to 76 foreign countries. The figure for reprints, although larger this year, is only an apparent increase resulting from the distribution of payments in relation to the fiscal year. The income from the sale of indexes shows a 23% gain over last year. The figure for advertising represents income for more than one year due to a change in the method of invoicing; the portion for 1959-60 is larger due to an increase in both the amount of advertising and the rates. The total income from the Endowment Fund is of the same order as last year and will be discussed separately.

Expenditures are grouped as follows:

Item	Amount	Per Cent	Per Cent
		1959-60	1958-59
Officers' honoraria .....	\$ 2,177.09	6.2	3.2
Office expense .....	3,208.74	9.2	8.9
Publication program .....	28,694.33	82.3	85.3
Support of other organizations, etc..	810.63	2.3	2.6

The percentages of expenditures are also substantially the same as last year. Publication and related expense make up by far the major portion, with the printing and distribution of *The American Mineralogist* as the largest single item. Note should be made that the amount shown for this item at the close of the fiscal year covers only five issues; normal cost for six issues is approximately \$27,000. The figure for officer's honoraria is higher than normally for it includes two years' payments to the Secretary and Treasurer as well as an increase in stipends. Office expense has remained at the same level in spite of increased business in the offices of the Editor, Secretary, and Treasurer. Of the unusually high amount for supplies, about 80% can be charged to the purchase of new record cards for the Treasurer's office for the decade 1961-70, an item recurring each ten years.

#### *Endowment Fund*

The book value of the Endowment Fund securities was \$123,036.84 on July 31, 1960.

Of this amount, 12.4% is in bonds, 27.8% in preferred stocks, and 59.8% in common stocks. The market value, computed on July 31, 1960, was \$151,285.00. Funds invested during the year have been derived chiefly from payments on Fifty-Plus Committee pledges (see *The American Mineralogist*, May-June, 1960, pages 747-748, for statement and list of names). Dividends and interest accruing from the securities totaled \$7214.61 and exceeded the estimated income of \$6850 chiefly as a result of payment of accumulated dividends by the Fairbanks Whitney Corporation. From securities now held, an income of \$7200 is estimated for 1960-1961. The percentage yield of the portfolio, and of each type of security, at both book and market values, is given below. These compare favorably with the current 3.4% average yield from industrial common stocks and the 4.6% average return on corporate bonds as reported by Merrill Lynch in August 1960.

	YIELD			
	Total	Bonds	Preferred stock	Common stock
Book value .....	5.86	5.03	5.72	6.09
Market value .....	4.76	5.26	5.88	4.33

*Mineralogical Abstracts*

During 1959, the first year of co-publication of *Mineralogical Abstracts*, volume 14, numbers 1-4, was issued quarterly under the capable editorship of James Phemister. Copies were distributed to 683 members of the British society, 265 members of our society (in addition to about 260 who are members of the British society), and approximately 400 library subscribers. Total income from all 1959 subscriptions was about \$6400.00 and the total cost of publication was about \$11,400.00. Taking into account the initial joint contribution of \$2800.00 (of which \$500 had been used in 1958), that part of 1959 expense not covered by income amounted to \$2700.00 (\$1350 each society). In order to make *Mineralogical Abstracts* self-supporting, steps have been taken to reduce publication costs and to increase the income from subscriptions. These have resulted in some savings in cost, in spite of a 5% printer's increase as of January 1960, and enough of an increase in subscription revenue to make the overall picture for 1960 more assuring.

*Income-Expenditure Outlook*

It almost goes without saying that we are in the midst of a period of rising costs and that we must accept and resolve this fact. Our printing contract with George Banta Company, Inc. was rewritten this year to include a 6% increase to meet the higher cost of labor. Increases in membership and subscriptions, while admittedly desirable, bring with them increased expense, and we have had a net gain of 33% in the past 18 months. The Geological Society of America, in line with intentions outlined in November 1958, has found it necessary to initiate a schedule for the gradual decrease over a five-year period and termination in 1965 of our annual grant of \$8000, given to us as an affiliated society to assist in publication of *The American Mineralogist*.

To maintain our ability to continue publication of *The American Mineralogist* and *Mineralogical Abstracts* at the present high standard, the Council has taken several actions. It has recommended that the membership approve an increase in dues for both fellows and members. It has approved the advance of the subscription price of *The American Mineralogist* to an annual rate of \$10.00. In November 1959, it appointed an Advertising Manager to solicit more advertising for the *Journal*. Your Treasurer has also explored several smaller avenues for reducing costs and supplementing income. A postal permit, allowing special rates for domestic mailing, was secured this year. The schedule of reprint charges has been revised in line with our new printing contract. The strip announcement distributed with the annual dues bill has been responsible for the increased sale of indexes reported in the past two years. A comparable strip, sent to subscribers, has had a similar response with respect to index sales and has increased the number of subscriptions to *Mineralogical Abstracts*. A complete set of *The American Mineralogist*, with all out-of-print numbers, is now offered for sale. Other possible sources of income are being considered and the Treasurer will welcome suggestions from the membership.

During the past year, the Mineralogical Society of America received notification from the Internal Revenue Service of tax-exempt status as an educational and scientific organization. Contributions and bequests to the society are therefore deductible items under the

provisions of the Internal Revenue Code. The society was also notified by the Commissioners of Inland Revenue (Great Britain) that it had been placed on the list of societies approved for purposes of tax deductions by British members.

The Treasurer's office depends on several individuals for continuity of operation and I should like to place on record here my warm thanks to Catherine Skinner, for her able assistance with the records; Edward P. Henderson, Samuel S. Goldich, and Arthur Montgomery, of the Finance Committee, for their cooperation and competent advice; Stanly Carr and Herbert Allen, of Merrill Lynch, custodian of our securities; Irwin H. Wensink and Alvin A. Lang, of George Banta Company, Inc., printer of *The American Mineralogist*. And to those members of the society who have responded generously when called on for advice and assistance, a special thank you and my appreciation.

Respectfully submitted,  
MARJORIE HOOKER, *Treasurer*

#### REPORT OF THE AUDITING COMMITTEE

*To the President of the Mineralogical Society of America:*

The Auditing Committee has examined and verified the accounts of the Treasurer of the Mineralogical Society of America for the fiscal year beginning August 1, 1959 and ending July 31, 1960. It is the Committee's opinion that the Treasurer has done an excellent job, and she should be commended for the admirable manner in which she has kept the Society's books.

Respectfully submitted,  
MARIE L. LINDBERG  
ALVIN VAN VALKENBURG  
GUNNAR KULLERUD, *Chairman*

#### REPORT OF THE EDITOR FOR 1960

The 1960 volume of *The American Mineralogist* contained 1343 pages, very close to that of 1959, in both size and number of articles. There were 74 major and 65 shorter articles. The authors represented 28 U. S. educational institutions, 9 Federal agencies, and 11 private or industrial laboratories, 15 foreign educational institutions and 6 laboratories, giving a total of 69 institutions. Seven new minerals were described. There were 21 book reviews, and 72 items under Dr. Fleischer's valuable section on New Mineral Names.

The editor is grateful to the associate editors, and to many other individuals who have read manuscripts, and reported on them as to their suitability for *The American Mineralogist*. Likewise, the editor wishes to express his appreciation to the publisher of our *Journal*, George Banta Company, Inc. Their printing skill is evidenced by the excellent appearance of the *Journal*, and their splendid cooperation makes the editorial task much easier.

A summary of the contents of Vol. 45 is given in the following table.

DISTRIBUTION OF SUBJECT MATTER IN VOL. 45

Subjects.	Number	Pages	% of Total
Leading articles . . . . .	74	949	76.0
Short articles . . . . .	65	211	16.8
		1,160	
Memorials . . . . .	2	8	
Awards . . . . .	2	11	
Society proceedings . . . . .	1	21	
		40	3.2
Book Reviews . . . . .	21	13	
New Mineral Names . . . . .	72	31	
Notes . . . . .	20	7	
		51	4.0
Total . . . . .		1,251	100.0
Membership list . . . . .		66	
Index, Title Page, Table of Contents . . . . .		26	
Grand Total . . . . .		1,343	

Respectfully submitted,  
LEWIS S. RAMSDELL, *Editor*

LIST OF FORMER OFFICERS AND MEETING PLACES

By recommendation of the Council, a complete list of past officers is printed in the proceedings of the annual meeting of the Society:

HONORARY PRESIDENTS

- Edward S. Dana 1925-1935
- Charles Palache 1949-1954
- Edward H. Kraus 1955-

PRESIDENTS

- 1920 Edward H. Kraus
- 1921 Charles Palache
- 1922 Thomas L. Walker
- 1923 Edgar T. Wherry

VICE-PRESIDENTS

- 1920 Thomas L. Walker
- 1921 Waldemar T. Schaller
- 1922 Frederick A. Canfield
- 1923 George F. Kunz

PRESIDENTS (*Cont.*)

1924 Henry S. Washington  
 1925 Arthur S. Eakle  
 1926 Waldemar T. Schaller  
 1927 Austin F. Rogers  
 1928 Esper S. Larsen  
 1929 Arthur L. Parsons  
 1930 Herbert E. Merwin  
 1931 Alexander H. Phillips  
 1932 Alexander N. Winchell  
 1933 Herbert P. Whitlock  
 1934 John E. Wolff  
 1935 Clarence S. Ross  
 1936 William S. Bayley  
 1937 Norman L. Bowen  
 1938 Ellis Thomson  
 1939 Max N. Short  
 1940 William F. Foshag  
 1941 Frederick E. Wright  
 1942 Arthur F. Buddington  
 1943 John F. Schairer  
 1944 R. C. Emmons  
 1945 Kenneth K. Landes  
 1946 Paul F. Kerr  
 1947 M. J. Buerger  
 1948 M. A. Peacock  
 1949 John W. Gruner  
 1950 George Tunell  
 1951 A. Pabst  
 1952 Michael Fleischer  
 1953 J. D. H. Donnay  
 1954 Sterling B. Hendricks  
 1955 Harry H. Hess  
 1956 Clifford Frondel  
 1957 D. Jerome Fisher  
 1958 George E. Goodspeed  
 1959 Ralph E. Grim  
 1960 Joseph Murdoch

## SECRETARIES

1920-1922 Herbert P. Whitlock  
 1923-1933 Frank R. Van Horn  
 1933-1934 Albert P. Peck  
 1934-1944 Paul F. Kerry  
 1944-1959 C. S. Hurlbut, Jr.  
 1959- George Switzer

VICE-PRESIDENTS (*Cont.*)

1924 Washington A. Roebing  
 1925 Herbert P. Whitlock  
 1926 George Vaux, Jr.  
 1927 George L. English  
 1928 Lazard Cahn  
 1929 Edward Wigglesworth  
 1930 John E. Wolff  
 1931 William F. Foshag  
 1932 Joseph L. Gillson  
 1933 Frank B. Guild  
 1934 William A. Tarr  
 1935 Ellis Thomson  
 1936 Harold L. Alling  
 1937 H. V. Ellsworth  
 1938 Kenneth K. Landes  
 1939 Burnham S. Colburn  
 1940 Ian Campbell  
 1941 William J. McCaughey  
 1942 Martin J. Buerger  
 1943 John W. Gruner  
 1944 Harry Berman  
 1945 George Tunell  
 1946 S. B. Hendricks  
 1947 Carl Tolman  
 1948 Adolf Pabst  
 1949 J. D. H. Donnay  
 1950 Ralph E. Grim  
 1951 Michael Fleischer  
 1952 J. D. H. Donnay  
 1953 Sterling B. Hendricks  
 1954 Harry H. Hess  
 1955 Clifford Frondel  
 1956 D. Jerome Fisher  
 1957 George E. Goodspeed  
 1958 Ralph E. Grim  
 1959 Joseph Murdoch  
 1960 E. F. Osborn

## TREASURERS

1920-1923 Albert B. Peck  
 1924-1929 Alexander H. Phillips  
 1929-1930 Albert B. Peck  
 1930-1940 Waldemar T. Schaller  
 1941-1958 Earl Ingerson  
 1958- Marjorie Hooker

## EDITORS

1920-1921 Edgar T. Wherry

1922-1956 Walter F. Hunt

1957-Lewis S. Ramsdell

COUNCILORS

- 1920 Arthur S. Eakle, Frank R. Van Horn, Fred E. Wright, Alexander H. Phillips.  
 1921 Frank R. Van Horn, Fred E. Wright, Alexander H. Phillips, Austin F. Rogers.  
 1922 Fred E. Wright, Alexander H. Phillips, Austin F. Rogers, Thomas L. Watson.  
 1923 Alexander H. Phillips, Austin F. Rogers, Thomas L. Watson, Esper S. Larsen.  
 1924 Austin F. Rogers, Thomas L. Watson, Esper S. Larsen, Arthur L. Parsons.  
 1925 Thomas L. Watson, Esper S. Larsen, Arthur L. Parsons, William F. Foshag.  
 1926 Esper S. Larsen, Arthur L. Parsons, William F. Foshag, William A. Tarr.  
 1927 Arthur L. Parsons, William F. Foshag, William A. Tarr, Alexander N. Winchell.  
 1928 William F. Foshag, William A. Tarr, Alexander N. Winchell, Ellis Thomson.  
 1929 William A. Tarr, Alexander N. Winchell, Ellis Thomson, Clarence S. Ross.  
 1930 Alexander N. Winchell, Ellis Thomson, Clarence S. Ross, Paul F. Kerr.  
 1931 Ellis Thomson, Clarence S. Ross, Paul F. Kerr, William S. Bayley.  
 1932 Clarence S. Ross, Paul F. Kerr, William S. Bayley, William M. McCaughey.  
 1933 Paul F. Kerr, William S. Bayley, William J. McCaughey, Kenneth K. Landes.  
 1934 William S. Bayley, William J. McCaughey, Kenneth K. Landes, E. P. Henderson.  
 1935 William J. McCaughey, Kenneth K. Landes, E. P. Henderson, J. F. Schairer.  
 1936 Kenneth K. Landes, E. P. Henderson, J. F. Schairer, Arthur F. Buddington.  
 1937 E. P. Henderson, J. F. Schairer, Arthur F. Buddington, Arthur P. Honess.  
 1938 J. F. Schairer, Arthur F. Buddington, Arthur P. Honess, R. C. Emmons.  
 1939 Arthur F. Buddington, Arthur P. Honess, R. C. Emmons, Carl Tolman.  
 1940 Arthur P. Honess, R. C. Emmons, Carl Tolman, D. Jerome Fisher.  
 1941 R. C. Emmons, Carl Tolman, D. Jerome Fisher, Martin A. Peacock.  
 1942 Carl Tolman, D. Jerome Fisher, Martin A. Peacock, Adolf Pabst.  
 1943 D. Jerome Fisher, Martin A. Peacock, Adolf Pabst, C. S. Hurlbut, Jr.  
 1944 Martin A. Peacock, Adolf Pabst, Michiel Fleischer, S. J. Shand.  
 1945 Adolf Pabst, Michael Fleischer, S. J. Shand, R. E. Grim.  
 1946 Michael Fleischer, S. J. Shand, R. E. Grim, Joseph Murdoch.  
 1947 S. J. Shand, R. E. Grim, Joseph Murdoch, H. H. Hess.  
 1948 R. E. Grim, Joseph Murdoch, H. H. Hess, Clifford Frondel.  
 1949 Joseph Murdoch, H. H. Hess, Clifford Frondel, Lewis S. Ramsdell.  
 1950 H. H. Hess, Clifford Frondel, Lewis S. Ramsdell, E. F. Osborn.  
 1951 Clifford Frondel, Lewis S. Ramsdell, E. F. Osborn, George T. Faust.  
 1952 Lewis S. Ramsdell, E. F. Osborn, George T. Faust, Victor T. Allen.  
 1953 E. F. Osborn, George T. Faust, Victor T. Allen, C. Osborn Hutton.  
 1954 George T. Faust, Victor T. Allen, C. Osborn Hutton, Felix Chayes.  
 1955 Victor T. Allen, C. Osborn Hutton, Felix Chayes, L. G. Berry.  
 1956 C. Osborn Hutton, Felix Chayes, L. G. Berry, C. B. Slawson, A. O. Woodford.  
 1957 Felix Chayes, L. G. Berry, C. B. Slawson, A. O. Woodford, S. S. Goldich.  
 1958 L. G. Berry, C. B. Slawson, A. O. Woodford, S. S. Goldich, B. H. Mason, R. H. Jahns,  
 C. Milton.  
 1959 S. S. Goldich, B. H. Mason, R. H. Jahns, C. Milton, W. R. Foster, E. W. Nuffield.  
 1960 R. H. Jahns, C. Milton, W. R. Foster, E. W. Nuffield, J. R. Goldsmith, Horace  
 Winchell

Annual Meeting Places

- |                             |                             |
|-----------------------------|-----------------------------|
| 1920 Chicago, Illinois      | 1923 Washington, D. C.      |
| 1921 Amherst, Massachusetts | 1924 Ithaca, New York       |
| 1922 Ann Arbor, Michigan    | 1925 New Haven, Connecticut |



ANNUAL MEETING PLACES (*Cont.*)

1926 Madison, Wisconsin	1944 No meeting held
1927 Cleveland, Ohio	1945 Pittsburgh, Pennsylvania
1928 New York, N. Y.	1946 Chicago, Illinois
1929 Washington, D. C.	1947 Ottawa, Canada
1930 Toronto, Canada	1948 New York, N. Y.
1931 Tulsa, Oklahoma	1949 El Paso, Texas
1932 Cambridge, Massachusetts	1950 Washington, D. C.
1933 Chicago, Illinois	1951 Detroit, Michigan
1934 Rochester, New York	1952 Boston, Massachusetts
1935 New York, N. Y.	1953 Toronto, Canada
1936 Cincinnati, Ohio	1954 Los Angeles, California
1937 Washington, D. C.	1955 New Orleans, Louisiana
1938 New York, N. Y.	1956 Minneapolis, Minnesota
1939 Minneapolis, Minnesota	1957 Atlantic City, New Jersey
1940 Austin, Texas	1958 St. Louis, Missouri
1941 Boston, Massachusetts	1959 Pittsburgh, Pennsylvania
1942 No meeting held	1960 Denver, Colorado
1943 No meeting held	

## Recipients of the Roebling Medal

1937 Charles Palache	1952 Fred E. Wright
1938 Waldemar T. Schaller	1953 William F. Foshag
1940 Leonard James Spencer	1954 Cecil Edgar Tilley
1941 Esper S. Larsen, Jr.	1955 Alexander N. Winchell
1945 Edward H. Kraus	1956 Arthur F. Buddington
1946 Charence S. Ross	1957 Walter F. Hunt
1947 Paul Niggli	1958 Martin J. Buerger
1948 William Lawrence Bragg	1959 Felix Machatschki
1949 Herbert E. Merwin	1960 Tom. F. W. Barth
1950 Norman L. Bowen	

## Recipients of the Mineralogical Society of American Award

1951 Orville F. Tuttle	1956 George C. Kennedy
1952 Frederick H. Stewart	1957 Rustum Roy
1953 L. H. Ahrens	1958 Charles E. Weaver
1954 Hatten S. Yoder, Jr.	1959 Harry F. W. Taylor
1955 Julian R. Goldsmith	1960 Donald L. Graf

## 1960 ANNUAL MEETING AT DENVER, COLORADO

The meetings of the following societies were held on October 30–November 2, 1960.

The Geological Society of America—73rd  
 The Paleontological Society—52nd  
 The Mineralogical Society of America—41st  
 Society of Economic Geologists—41st  
 The Geochemical Society—5th

Abstracts of the papers presented are printed in the Bulletin of the Geological Society of America, Vol. 71, Number 12, Part 2, pp. 1811–2010.