

PROCEEDINGS OF THE FORTY-FOURTH ANNUAL
MEETING OF THE MINERALOGICAL SOCIETY
OF AMERICA AT NEW YORK, NEW YORK

GEORGE SWITZER, *Secretary*

The forty-fourth meeting of the Society was held on November 17-20, 1963 at the Hotel Commodore, New York, N. Y. The scientific sessions were integrated with those of the Geological Society of America and other affiliated societies. A total of 31 scientific sessions were held. Of these one was devoted to crystallography, two to mineralogy, two to petrology, two to organic geochemistry, and three to inorganic geochemistry. In these sessions a total of 108 papers was presented.

The annual luncheon of the society on November 19 was attended by 160 members and guests. Following the luncheon the twenty-first presentation of the Roebling Medal was made to John Frank Schairer and the thirteenth presentation of the Mineralogical Society of America Award was made to Nobuo Morimoto.

On the afternoon of November 19 the Society was addressed by Retiring President Cornelius S. Hurlbut, Jr. on the subject "*The Elementary Course in a Changing Mineralogy.*" The annual business meeting was held on the morning of November 20, at which reports were given by the Secretary, Treasurer, and Editor of *The American Mineralogist*.

ACTION OF THE 1963 COUNCIL AT ITS NOVEMBER 17, 1963 MEETING

The second meeting of the 1963 Council was held on November 17, 1963. The principal actions taken by the Council are summarized below:

Awards. The Council voted that in 1964 the Roebling Medal be awarded to Clifford Frondel, and the Mineralogical Society of America Award to William Sefton Fyfe.

Nomenclature Committee. Following a discussion of the relationship of the activities of the committee and the International Mineralogical Association reports on nomenclature, the Council voted that matters of the Nomenclature Committee be referred to that committee with power to act, and the results of its action be brought to the attention of the Council.

American Geological Institute. The Council voted to continue to designate as its stipulated members all fellows of the Society.

International Mineralogical Association Commission on New Minerals and Mineral Names. The Council voted (1) that the Editor publish in *The American Mineralogist* the 1959, 1960, 1961 and future annual lists of approved and disapproved new names, (2) that the Editor publish in *The American Mineralogist* the 1960 and 1962 and future lists of preferred names for minerals which have several names, and (3) that the Editor inform authors that manuscripts involving new mineral names or mineral redefinitions will automatically be sent to the Chairman of the International Mineralogical Association Commission on New Minerals and Mineral Names for review by the Commission.

National Research Council. The Council voiced its approval of any review of the classified status of remote control sensing devices, with the object of declassification of any that might be applied to geological problems.

National Medal of Science. It was voted that a committee be appointed to select a name to be proposed for a National Medal of Science.

Review of Method of Refereeing Papers Submitted for Publication in The American Mineralogist. Because some criticism had been leveled at the method being used to referee papers submitted for publication in *The American Mineralogist*, this matter was discussed at length. It was then voted that the Council reaffirms its approval of the method now being

used for refereeing papers submitted for publication in *The American Mineralogist*, and that it reaffirms its support of the Editor, who acts as agent of the Council in his conduct of the office of the Editor.

Recommendation of Auditing Committee. The Council took due recognition of the following recommendation of the 1963 Auditing Committee: To continue the satisfactory improvement of the endowment fund some substitute should be found for the "Fifty-Plus" Committee, which is currently terminating. We recommend that the Council continue the idea of the "Fifty-Plus" Committee in some other form, possibly by soliciting contributions from industries that utilize the Society's journal to publish the work of their employees.

The Council voted that the Financial Advisory Committee be asked to explore the possibility of increasing the MSA endowment.

ACTION BY THE 1964 COUNCIL

The 1964 Council held its first meeting on November 20, 1963.

Editor of The American Mineralogist. The Council appointed E. Wm. Heinrich Editor of *The American Mineralogist* for the year 1964.

American Mineralogist Articles of Interest to the Amateur. In 1958 the Council authorized the printing of occasional papers of professional quality but having greater appeal to the nonprofessional mineralogists who make up a considerable proportion of the membership of the Society. At its November 20, 1963 meeting the Council voted that this project be reactivated, and that another attempt be made to obtain suitable manuscripts. Editor Heinrich suggested as a general theme famous mineral localities, and that eventually a series of such papers could be bound separately.

Associate Editors of The American Mineralogist. The terms of Associate Editors Herbert Insley and Carl W. Correns expired at the end of 1963. The Council expressed its thanks to these gentlemen for their devoted service to the Society, and appointed to replace them for a three-year term beginning January 1, 1964 William T. Holser and I. H. Milne.

MSA Special Paper Number 2. Editor Heinrich strongly urged the continuation of the Special Paper series. The Council heartily endorsed this recommendation and instructed the Editor to seek suitable manuscripts of a type that would be of general interest to the membership.

Interim Meeting of the Mineralogical Society of America. The Council was asked by the Board of Past Presidents to consider the desirability and feasibility of holding a second MSA meeting each year, meeting alone or possibly with another small group, in the summer and in an area where good field excursions could be planned. The Council voted to go on record as favoring such an interim meeting. Howard Evans was appointed to act as liaison with the American Crystallographic Association to see if a joint meeting could be arranged with the ACA in July in Bozeman, Montana.

Committee Appointments. President Berry made the following committee appointments, which were approved by the Council.

1964 COMMITTEES OF THE MINERALOGICAL SOCIETY OF AMERICA

Nominating Committee for Fellows

C. W. Chesterman, Chairman	1962-64
A. J. Frueh	1962-64
M. E. Mrose	1963-65
E. J. Weiss	1963-65
C. Burri	1964-66
J. J. W. Rogers	1964-66

Nominating Committee for Officers

D. E. White, Chairman
P. F. Kerr
S. C. Robinson
C. J. Roy
F. D. Bloss
J. D. H. Donnay

Roebling Medal Committee

W. F. Bradley, Chairman
 Brian Mason
 M. J. Buerger
 A. F. Buddington
 J. F. Schairer
 E. W. Nuffield

MSA Award Committee

J. V. Smith, Chairman
 D. L. Graf
 D. S. Coombs
 S. S. Goldich
 F. H. Stewart
 C. Frondel

Financial Advisory Committee

E. P. Henderson, Chairman 1962-64
 A. Montgomery 1963-65
 W. T. Pecora 1964-66

Program Committee

L. R. Page

Auditing Committee

D. B. Stewart, Chairman
 P. E. Desautels
 J. R. Clark

Mineralogical Abstracts

L. G. Berry, Chairman
 K. Servos
 W. T. Holser
 C. A. Salotti

Nomenclature Committee

G. T. Faust, Chairman	1963-65
A. Pabst	1963-65
A. Poldevaart	1962-64
A. von Volborth	1962-64
S. A. Forman	1964-66
H. Winchell	1964-66

Archivist

G. T. Faust

REPRESENTATIVES

American Geological Institute

Representative
 I. Campbell 1963-65
 Government Relations Committee
 P. F. Kerr
 Translations Committee
 M. Fleisher

International Mineralogical Association

Representative
 E. F. Osborn
 Members of Commissions
 Abstracts—H. Winchell
 Data—G. T. Faust
 New Minerals and Mineral Names—
 D. McConnell

Museums—G. Switzer
 Teaching—C. S. Hurlbut, Jr.
 Ore Microscopy—E. N. Cameron
 Cosmic Mineralogy—B. Mason

American Association for the Advancement of Science

C. S. Bacon
 V. B. Meen

National Research Council

F. Chayes 1963-66
 J. J. Fahey (Advisory Board to Office of Critical Tables)

Nominations for Officers for 1965. The following slate was proposed by the Nominating Committee and approved by the Council:

President: George T. Faust
Vice President: Brian Mason
Secretary: George Switzer
Treasurer: Marjorie Hooker

Councilors: (1965-67, two to be elected)

William S. Fyfe
 Donald L. Graf
 Katharine K. Mather
 William T. Pecora

REPORT OF THE SECRETARY FOR 1963

To the Council of the Mineralogical Society of America

ELECTION OF OFFICERS AND FELLOWS

The ballots were counted on October 21 by a Tellers Committee composed of Margaret D. Foster, Joseph J. Fahey, and the Secretary. Nine hundred and seventy-seven ballots were cast in the election of officers and 204 in the election of fellows. The officers elected to serve in 1964 are:

President: Leonard G. Berry
Vice President: George T. Faust
Secretary: George Switzer
Treasurer: Marjorie Hooker
Councilors: (1964-66) Harold L. James
 Joseph V. Smith

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

John A. S. Adams	Vladi Marmo
Sturges Williams Bailey	Nobuo Morimoto
George Malcolm Brown	Ryohei Morimoto
Ann Marie G. V. Bystrom-Asklund	Arnulf Muan
Simonne Ann Marie Caillère	Purama R. J. Naidu
Hans Carl Eisenreich Clausen	Mitsuoki Nakahira
Arthur Benson Cummins	Bruce Warren Nelson
Edward J. Dwornik	Eugene Corley Robertson
Wolf J. von Engelhardt	Della Martin Roy
Manuel Font-Altava	Alfredo San Miguel Arribas
Stanislas Goldshtaub	Arno Schüller
Robert Andrew Howie	David Benjamin Stewart
Marion L. Jackson	William Owen Williamson
Mead LeRoy Jensen	Jack Zussman
Frederick John Kuellmer	

At its November 11, 1962 meeting the Council instructed the Treasurer to devise a method of effecting economies in regard to the cost of programs of the annual meeting, which in the past have been sent to all members (at a cost of \$1,154.30 in 1962). Accordingly, the Secretary mailed to all members (except those belonging to the Geological Society of America) a coupon, requesting that it be returned only by those wanting a program. About 400 coupons were returned, which will result in a net saving of about \$800.

In October 1963 a milestone in achievements by the Society was reached with the publication of Mineralogical Society of America Special Paper Number One—Papers and Proceedings of the Third General Meeting of the International Mineralogical Association.

MEMBERSHIP STATISTICS

Membership in the society in 1963 is shown in the following table. Figures for the preceding two years are given for comparison.

	November 1, 1963		
	1961	1962	1963
Honorary Fellows	4	4	4
Fellows	448	471	482
Members	1,587	1,593	1,670
	<hr/>	<hr/>	<hr/>
	2,039	2,068	2,156

During 1963 the society lost through death four fellows:

- Mark C. Bandy
- H. E. Merwin
- Joseph L. Rosenholtz
- Arno Schüller

Respectfully submitted,
 GEORGE SWITZER, *Secretary*

REPORT OF THE TREASURER FOR 1963

(Year ending July 31, 1963)

To the Council of the Mineralogical Society of America:

SUMMARY STATEMENT

Operating cash, August 1, 1962	\$ 8,269.31	
Receipts, August 1, 1962-July 31, 1963	57,241.76	\$ 65,511.07
Disbursements, August 1, 1962-July 31, 1963	52,770.46	
Transfer to capital	6,688.41	
Operating cash, July 31, 1963	6,052.20	65,511.07
Assets, July 31, 1963		
Capital: Endowment Fund (Securities at market value)		189,037.00
includes Fifty-Plus Fund \$12,939.00		
Museum Fund 100.00		
Cash Contingency Fund		20,971.55
Operating cash		6,052.20
Total		<hr/> \$216,060.75

RECEIPTS

Dues		
Fellows	\$ 3,084.00	
Members	11,780.17	
Student members	1,108.00	\$ 15,972.17

Publications		
<i>The American Mineralogist</i> subscriptions.....	13,852.40	
Geological Society of America grant.....	3,200.00	
Sales—Reprints.....	4,197.21	
Back numbers.....	2,264.82	
Index, vols. 1–20.....	55.80	
vols. 21–30.....	100.20	
vols. 31–40.....	192.00	
IMA Symposia.....	749.10	
Guidebooks.....	361.65	
IMA World Directory.....	211.50	
Advance royalties.....	1,000.00	
Advertising.....	2,162.51	
Mailing list rental.....	322.89	28,670.08
Investments		
Dividends.....	7,456.27	
Interest.....	708.41	8,164.68
Income for Investment		
Fifty-Plus Committee.....	1,647.00	
Contributions.....	173.00	
Life membership.....	160.00	
Securities transfer.....	1,382.34	3,362.34
Reimbursement, IMA fund advance.....	1,072.49	1,072.49
Total receipts.....		\$ 57,241.76

DISBURSEMENTS

Publications		
<i>The American Mineralogist</i> (May 1962–June 1963).....	\$38,694.48	
Reprints (May 1962–April 1963).....	3,387.05	
Program and Abstracts.....	1,154.30	
Ten-year Index (1956–1965).....	369.35	
Reprinting, Index, vols. 1–20.....	215.00	
Guidebook, Northern Field Trip.....	80.00	
Special Paper Number 1.....	49.05	
Back issues, storage.....	387.66	
sales expense.....	122.23	
postage expense.....	300.00	
Mailing list rental.....	61.05	
IMA Symposia payments.....	459.15	
IMA World Directory payment.....	142.50	
Legal fee.....	175.00	
Subscription refunds.....	31.00	\$ 45,627.82
<i>Mineralogical Abstracts</i> —deficit payment.....	701.28	701.28

Office Expense			
Editor:	Secretarial.....	765.00	
	Postage.....	149.33	
	Supplies.....	21.13	
	Telephone.....	93.61	
	Travel.....	132.00	1,161.07
Secretary:	Secretarial.....	146.00	
	Printing.....	493.75	
	Postage.....	167.82	
	Supplies.....	150.60	
	Committee expense.....	46.45	1,004.62
Treasurer:	Secretarial.....	125.00	
	Printing.....	617.65	
	Postage.....	425.41	
	Supplies.....	146.04	
	Travel.....	146.40	
	Annual meeting expense.....	17.50	1,478.00
Officers' Honoraria			
	Editor (July 1962-June 1963).....	750.00	
	Secretary (August 1962-July 1963).....	500.00	
	Treasurer (August 1962-July 1963).....	500.00	1,750.00
Contributions, awards, etc.			
	International Mineralogical Association dues, 1963.....	150.00	
	American Geological Institute, 1963.....	462.00	
	Roebing Medal, 1962.....	146.50	
	MSA Award, 1962.....	9.50	
	IMA Third General Meeting, fund advance.....	231.79	
	Miscellaneous (Check charges, etc.).....	47.88	1,047.67
Total disbursements.....			\$ 52,770.46

ENDOWMENT FUND

Amount	Security	Cost	Value ¹	Income ²
<i>Bonds</i>				
---	Atlantic Coast Line, 4½.....	\$ —	—	\$ 204.75 ³
5M	New York Central, 5.....	4,300.00	\$ 3,788	250.00
5M	Southern Railway, 5.....	5,743.75	5,312	250.00
		<u>\$ 10,043.75</u>	<u>\$ 9,100</u>	<u>\$ 704.75</u>
<i>Preferred stocks</i>				
150	Fairbanks Whitney.....	\$ 4,487.50	\$ 2,513	\$ 60.00 ⁴
60	Jones & Laughlin.....	4,987.50	6,270	300.00

¹ Approximate market value, August 1, 1963.

² Fiscal year ending July 31, 1963, except where noted.

³ Sold March 1963.

⁴ Dividend being accumulated.

40	Potomac Electric Power, 2.44	2,000.00	2,060	97.60
500	Union Pacific, 4	4,570.25	4,750	200.00
55	United States Steel, 7	6,946.20	8,525	385.00
50	Virginia Electric Power, 5	5,942.50	5,450	250.00
		\$ 28,933.95	\$ 29,568	\$1,292.60

Common stocks

262	American Telephone & Telegraph	\$ 12,391.83	\$ 31,407	\$ 943.20
50	Boston Insurance	1,500.00	2,000	90.00
100	Buckeye Steel Castings	3,800.00	2,538	150.00
185	Chase Manhattan Bank	11,344.04	16,835	481.00
100	Chesapeake & Ohio Railway	5,237.44	6,213	250.00 ⁵
300	Columbia Gas Systems	5,174.72	8,888	339.00
100	Columbus & Southern Ohio Electric	2,087.50	6,938	220.00
100	Continental Can	4,051.56	4,513	185.00
150	Denison Mines, Ltd.	3,096.00	1,650	118.26
297	Diana Stores	4,693.85	2,910	144.02 ⁶
150	General Portland Cement	2,934.69	3,094	30.00 ⁷
254	Greyhound Corporation	2,300.00	10,033	311.62 ⁸
104	Hot Shoppes	2,400.00	2,388	— ⁹
261	Kroger Company	2,034.03	7,830	287.12
100	Link Belt	4,792.90	5,100	240.00
50	Phelps Dodge Corporation	1,975.00	3,119	150.00
102	Pittsburgh Plate Glass	5,756.37	5,738	222.20 ¹⁰
100	Plymouth Cordage	4,750.00	8,550	370.00
—	Public Service Electric & Gas	—	—	87.50 ¹¹
200	Richfield Oil	8,697.65	8,550	360.00
100	Southern Natural Gas	3,600.00	5,125	200.00
200	Sunray DX Oil	4,685.26	6,950	280.00
		\$ 97,302.84	\$150,369	\$5,458.92
	Total	\$136,280.54	\$189,037	\$7,456.27

CASH CONTINGENCY FUND

<i>Account</i>	<i>Amount</i>	<i>Income</i>
National Permanent Savings & Loan Association	\$14,517.27	\$517.27
Columbia Federal Savings & Loan Association	6,322.39	191.14
Riggs National Bank	131.89	—
	\$20,971.55	\$708.41

⁵ Additional shares purchased March 1963.⁶ Stock dividend January and July 1963.⁷ Purchased March and July 1963; one quarter dividend on 100 shares.⁸ Stock dividend August 1962 and May 1963.⁹ Purchased March 1963; stock dividend June 1963.¹⁰ Stock dividend January 1963.¹¹ Sold March 1963; three quarter dividend.

The figures given in the preceding tables indicate a continuing satisfactory financial position. Our income exceeds our expenses, and the increase in the value of our investments reflects the more stable market conditions compared to the previous year. Once again, the comments that follow will concern individual items or trends of particular interest.

Income and Expense

In Table 1 the income is grouped according to the sources, and amounts and percentages are compared with those for last year.

TABLE 1

Income source	Amount		Percentage	
	1961-1962	1962-1963	1961-1962	1962-1963
Dues.....	\$15,511.32	\$15,972.17	26.9	27.9
Publication program.....	31,270.81	28,670.08	54.4	50.1
Investments.....	7,887.25	8,164.68	13.7	14.3
Income for Investment.....	2,876.56	3,362.34	5.0	5.9
Reimbursement, IMA.....	—	1,072.49	—	1.8
	<hr/> \$57,545.94	<hr/> \$57,241.76		

The total income is about the same as last year, with expectable changes in the amounts and percentages. The number of subscriptions shows a slight increase. At the present time, 1542 copies of *The American Mineralogist* are distributed on a paid basis compared with 1528 last year. Of these, 607 are delivered to subscribers in all fifty states, the District of Columbia and Puerto Rico, and 935 are sent abroad to 79 countries on all continents. Advertising revenue is about the same, and again we are indebted to Mr. and Mrs. Martin L. Ehrmann for their capable management of this source of income.

The income from our publication program shows a decrease of about \$2,600, stemming primarily from an anticipated drop in the sales of back issues and the reduction in Penrose funds. Two actions taken by the Council in November 1962 will serve to augment the income from this source in the future. The Council raised the annual subscription price of the Journal from \$10.00 to \$15.00, and adopted a revised schedule of charges for authors' reprints. The additional income will help to offset increased printing costs and the loss of Penrose money.

An item of increasing concern in recent years has been the growing number of issues and volumes no longer in print and thus unobtainable by new library subscribers. During the year, the Society negotiated a contract with the Kraus Reprint Corporation of New York for reprinting in the original form, volumes 20 through 32 inclusive (1935-1947), and it is anticipated that this will be extended to include volumes 1 through 19 (1916-1934) so that complete sets will be available.

In Table 2, expenditures are grouped and the amounts and percentages are compared with those for the preceding year. Expenses are of the same order as before; the increased amount paid for *The American Mineralogist* indicates payment for seven issues within the fiscal year rather than the usual six, as a result of bringing the Journal back to the normal publication schedule. A different procedure has been adopted for distributing the Program and Abstracts of the 1963 meeting to members, which, it is hoped, will mean a substantial reduction in the cost of that item.

TABLE 2

Disbursement	Amount		Percentage	
	1961-1962	1962-1963	1961-1962	1962-1963
Publication program.....	\$40,029.19	\$46,329.10	83.6	87.8
Office expense.....	3,577.51	3,643.69	7.4	6.9
Officers' honoraria.....	2,000.00	1,750.00	4.2	3.3
Contributions, etc.....	1,056.78	815.88	2.2	1.5
IMA fund advance.....	1,230.42	231.79	2.6	0.4
	<u>\$47,893.90</u>	<u>\$52,770.46</u>		

Endowment Fund and Cash Contingency Fund

The book value of the Endowment Fund securities on August 1, 1963, was \$136,280.54 compared with \$134,915.64 on August 1, 1962. Of this amount, 7.4% is in bonds, 21.2% in preferred stock, and 71.4% in common stock. The market value, computed on the same date, was \$189,037.00. The more stable market conditions during the past twelve months are reflected in the substantial gain in the value of the portfolio. Dividends and interest from the securities totaled \$7,456.27, near to the estimated figure of \$7,500.00. From the current holdings, an income of \$7,500 is estimated for 1963-1964. The percentage yields of each type of security, at both book and market values, are given in Table 3.

TABLE 3

Security	Book value	Yield	Market value	Yield
Bonds.....	\$ 10,043.75	4.98%	\$ 9,100	5.49%
Preferred stock.....	28,933.95	4.46	29,568	4.37
Common stock.....	97,302.84	5.51	150,369	3.57
Total.....	<u>\$136,280.54</u>	5.26	<u>\$189,037</u>	3.79

Table 4 lists the amounts received for investment from members of the Fifty-Plus Committee. This year marks the conclusion of the five-year pledge period and the major portion of the pledges have been completed. However, with the renewal of some and the continuation of others who joined after 1958, the total amount will without doubt exceed \$13,000.

TABLE 4

Year	Amount Paid In	Cumulative Total (with interest)
1958-1959.....	\$3,719.00	\$ 3,719.00
1959-1960.....	2,520.00	6,389.00
1960-1961.....	2,050.00	8,694.00
1961-1962.....	1,816.00	10,858.00
1962-1963.....	1,647.00	12,939.00

The Cash Contingency Fund, established in 1961 on the recommendation of the Financial Advisory Committee, now amounts to \$20,971.55. The accounts in which the fund is held are given in the tabulation on page 476.

National Science Foundation Grant

In August 1962, the Society received a grant of \$11,000 from the National Science Foundation toward the cost of publication of the Papers and Proceedings of the Third General Meeting of the International Mineralogical Association, held in Washington, D. C., in April 1962. This volume, scheduled to appear in October 1963, has been designated by the Council to be the first in a new series and will be Special Paper Number 1. Payment of \$11,000 on account was made to the George Banta Company in July 1963, and the interest earned in the intervening months since the receipt of the grant money, \$434.76, has been returned to the National Science Foundation.

Mineralogical Abstracts

Four numbers of Mineralogical Abstracts (vol. 15, nos. 4-7) were published in 1962. The distribution figures are approximately as follows: 1250 copies to members of the two societies—720 members of the British society and 850 members of the American society (320 of these are members of both societies and therefore receive their copies as members of the British society), and 610 copies to various institutional subscribers. Publication costs were approximately \$11,560 and income about \$8,880, leaving a deficit of \$2,680. New annual rates for both members and subscribers went into effect in January 1963, but as of October 1, 1963, no report had been made available showing the effect of the increase on income. The larger number of abstracts published, and consequently the increase in the number of pages, has meant increased cost so that it will probably be necessary to reassess the subscription rates in the near future.

Acknowledgments

The continuity of operation of the Treasurer's office depends on several individuals to whom I extend my sincere thanks at this time,—specifically, Harriet Evans, for her dependable assistance; Edward P. Henderson, Arthur Montgomery, and William T. Pecora, of the Financial Advisory Committee, for their capable management of our investments; Stanly Carr, of Merrill Lynch, custodian of our portfolio; Joseph Dinsmore Murphy, of Steadman, Leonard, & Hennessey, for legal guidance; Irwin H. Wensink and Jane Gibson, of the Banta Company Washington office; Alvin A. Lang and Gerald J. Schutkoske, of the George Banta Company in Menasha, Wisconsin, printers of the Society publications. In addition to naming these people and their particular responsibilities, I take this opportunity to express my personal thanks to each member of the society and to our many business associates for their faithful and cheerful cooperation.

Respectfully submitted,
MARJORIE HOOKER, *Treasurer*

REPORT OF THE AUDITING COMMITTEE

To the President of the Mineralogical Society of America:

On November 14, 1963, the Auditing Committee examined the accounts of the Treasurer of the Society and found them in excellent order for the fiscal year, August, 1962-July, 1963. The Treasurer is to be commended for her efficient care and organization of the accounts of the Society.

Respectfully submitted,
DAVID GOTTFRIED, *Chairman*
DAVID B. STEWART
PAUL E. DESAUTELES

REPORT OF THE EDITOR FOR 1963

SUMMARY OF PUBLICATION RESULTS

The entire volume for 1963 totals 1450 pages (Tables 1, 2), about 50 pages less than 1962. This slight decrease does not reflect any decrease in MSS received, but the total does reflect the attempts to stay within our estimated budget, previous Council directives on total pagination, and difficulties in maintaining a uniform MS page: printed page ratio.

CHANGES IN VOLUME 48, 1963

In 1963 the main changes in *The American Mineralogist* and in editorial procedures were as follows:

1. A change in color of cover stock.
2. The journal is now being copyrighted.
3. Mrs. Rita Ehrmann, the advertising manager, in addition to soliciting and negotiating advertising, now also prepares the layouts and advertising copy for the printer. Thus *all* matters pertaining to advertisements have now been consolidated within a single office.
4. A new schedule of MS submission and galley proof return between the Editor's office and George Banta Co., Inc. has now gone into successful operation. This insures the mailing of the completed journal by about the middle of the second of the two months represented by the particular number, and its receipt by the US and Canadian membership well in advance of the end of that month. This is a 2-3 weeks improvement over 1962.

MANUSCRIPT VOLUME AND BACKLOG

Between January 1, 1963 and November 1, 1963 the Editor's office received and processed:

Major Article Manuscripts	116
Notes Manuscripts	79
	195

TABLE 1. DISTRIBUTION OF MATERIAL IN *The American Mineralogist*, VOL. 48, 1963

	Main Articles			Notes			Pages
	Total	U.S.	Foreign	Total	U.S.	Foreign	
Jan.-Feb.	13	9	4	6	4	2	225
March-April	12	7	5	9	6	3	259
May-June	13	9	4	11	7	4	240
July-Aug.	13	13	0	13	8	5	235
Sept.-Oct.	11	8	3	9	5	4	227
Nov.-Dec.	14	11	3	10	9	1	264
Totals	76	57	19	58	39	19	1450

Total articles 134.

TABLE 2. MISCELLANEOUS INFORMATION, *The American Mineralogist*, VOL. 48, 1963

	Main	Notes
<i>% Foreign Articles:</i>	23%	33%
<i>Countries represented:</i> Australia, Canada, Czechoslovakia, England, Finland, Germany, India, Israel, Italy, Japan, Malaya, Northern Rhodesia, Norway, Pakistan, Scotland, Uganda (16)		
<i>New Minerals Described:</i> Anthonyite, barnesite, calumetite, ixiolite, karelianite, melano-phlogite, a tetragonal iron sulfide (7)		
<i>New Mineral Names</i> appeared in 5 numbers		
<i>Total books reviewed:</i> 33		

In this same period there were rejected, following reviews:

Major Article Manuscripts.....	14
Notes Manuscripts.....	7

Of the total manuscripts (both Major and Notes) accepted for publication between January 1 and November 1, 1963, 48% required major or minor revisions before acceptance.

On November 1, 1963 the status of the MS backlog was:

	Major	Notes
Accepted.....	22	17
Returned for revision.....	21 ¹	6
Received, not yet reviewed.....	12	4

¹ Includes 8 MSS not returned in revised form by authors after intervals of 14-10 months.

From these data it is predictable that by December 5, 1963, at which time MS copy for the January-February number of volume 49, 1964 must be ready for the printer (in other words, the start of our "publication year") we will have on hand, accepted for publication:

<i>Major MS</i>	<i>Notes MS</i>
45	27

This quantity will be, at our current rate of publication, equivalent to about 3½ numbers (assuming a normal rate of arrival of additional, acceptable Notes MS in the next 3 months). This backlog is greater than any we have had in the 2 years that I have been editor, and I regard its increased size as undesirable, largely because it will increase materially the delay between our "acceptance date" for a MS and the time of its appearance. For the November-December, 1963, number this interval *ranges from 7 to as short as 4 months, and averages about 6 months for Major articles (less for Notes).*

I recommend, therefore, to the Council, that, if budgetary considerations permit, we increase the maximum allowable total pagination for Volume 49, 1964 to 1800 pages, which will permit individual numbers of up to 300 pages, a size not too bulky for mailing with

our present weight wrapping stock paper. A large increase occurred in total MS received in the period September–November, 1963, an increased influx which does not appear to be slackening. We may not need this entire requested increased pagination, but it should be available to the editor if we are to keep the “publication interval” appropriately compressed, which in my opinion should approach no more than a 6 months delay.

SPECIAL PAPER NO. 1

A great deal of time was spent, during January to June 1963, on editorial chores in connection with the publication of *Special Paper No. 1*—Papers and Proceedings of the 3d Meeting of the IMA. This has at last been published and is now available for purchase by means of special order coupons that are appearing in the current number and next 3 numbers of *The American Mineralogist*. Since it was the initial publication effort by our Society outside of *The American Mineralogist*, a great number of non-routine problems had to be solved—format, type styles and sizes, headings, illustration sizes and limits, binding, etc. The results, both visually and contextually, have, I believe, justified our efforts, and also have, I hope, set a standard for possible future publications of this nature.

TABLE 3. LIST OF MANUSCRIPT REFEREES (IN ADDITION TO THE BOARD OF ASSOCIATE EDITORS) FOR 1963

I. Adler	R. A. Hatch	D. R. Peacor
L. L. Ames	D. M. Henderson	W. T. Pecora
S. W. Bailey	R. M. Honea	Arie Poldervaart
J. D. Barksdale	C. S. Hurlbut	L. S. Ramsdell
T. F. Bates	V. J. Hurst	H. J. Rose, Jr.
C. W. Beck	Earl Ingerson	J. L. Rosenfeld
Joseph Berman	M. L. Jackson	R. A. Rowland
W. F. Bradley	R. H. Jahns	J. F. Schairer
G. W. Brindley	E. A. Jenne	David Slemmons
M. J. Buerger	W. C. Kelly	J. V. Smith
E. N. Cameron	F. J. Kuellmer	D. B. Stewart
E. C. T. Chao	S. B. Levin	George Switzer
Felix Chayes	A. A. Levinson	R. T. Tettenhorst
C. W. Chesterman	R. T. Liddicoat, Jr.	J. B. Thompson, Jr.
P. L. Cloke	A. C. Lilly	C. E. Tilley
R. M. Denning	M. L. Lindberg	F. J. Turner
Wilhelm Eitel	R. J. P. Lyon	J. A. Vance
R. C. Emmons	Duncan McConnell	John Verhoogen
W. G. Ernst	J. B. Mertie	C. J. Vitaliano
G. T. Faust	Charles Meyer	A. von Volborth
D. J. Fisher	I. H. Milne	C. E. Weaver
Michael Fleischer	R. S. Mitchell	Horace Winchell
Clifford Frondel	Joseph Murdoch	D. R. Wones
R. M. Gates	G. J. Neuerburg	P. J. Wyllie
L. D. Glasser	E. H. Nickel	H. S. Yoder, Jr.
R. E. Grim	E. F. Osborn	E-an Zen
J. W. Gruner	A. Pabst	

ACKNOWLEDGMENTS

The major part of the credit for any successes that *The American Mineralogist* has achieved in 1963 should descend upon the Associate Editors and the manuscript referees (Table 3), who have been unselfish with their time and skills. Dr. M. Fleischer and his associates continue to compile, what is in my opinion, the invaluable data presented under "New Mineral Names." Mrs. Rita Ehrmann deserves special recognition and commendation for her enthusiastic and unflagging efforts to improve our advertising situation. The Department of Geology and Mineralogy of the University of Michigan, in addition to providing ample office space and equipment, made the additional generous contributions of one-half the cost of relighting the office and the entire cost of transferring a telephone extension.

Respectfully submitted,

E. WM. HEINRICH

Editor, The American Mineralogist

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
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

VICE-PRESIDENTS

1920	Thomas L. Walker
1921	Waldemar T. Schaller
1922	Frederick A. Canfield
1923	George F. Kunz
1924	Washington A. Roebling
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

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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
 1961 E. F. Osborn
 1962 Ian Campbell
 1963 C. S. Hurlbut, Jr.

VICE-PRESIDENTS (*Cont.*)

1943 John W. Gruner
 1944 Harry Berman
 1945 George Tunell
 1946 S. B. Hendricks
 1947 Carl Tolman
 1948 A. 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
 1961 Ian Campbell
 1962 C. S. Hurlbut, Jr.
 1963 Leonard G. Berry

SECRETARIES

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

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
 1957-1961 Lewis S. Ramsdell
 1962- E. Wm. Heinrich

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 J. 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, Michael 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. Osborne Hutton.
 1954 George T. Faust, Victor T. Allen, C. Osborne Hutton, Felix Chayes.
 1955 Victor T. Allen, C. Osborne Hutton, Felix Chayes, L. G. Berry.
 1956 C. Osborne 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.
 1961 W. R. Foster, E. W. Nuffield, J. R. Goldsmith, Horace Winchell, R. M. Garrels, O. F. Tuttle.
 1962 J. R. Goldsmith, Horace Winchell, R. M. Garrels, O. F. Tuttle, Francis J. Turner, Hatten S. Yoder, Jr.
 1963 R. M. Garrels, O. F. Tuttle, Francis J. Turner, Hatten S. Yoder, Jr., W. F. Bradley, Howard T. Evans.

Annual Meeting Places

- | | |
|-----------------------------|-------------------------------|
| 1920 Chicago, Illinois | 1930 Toronto, Canada |
| 1921 Amherst, Massachusetts | 1931 Tulsa, Oklahoma |
| 1922 Ann Arbor, Michigan | 1932 Cambridge, Massachusetts |
| 1923 Washington, D. C. | 1933 Chicago, Illinois |
| 1924 Ithaca, New York | 1934 Rochester, New York |
| 1925 New Haven, Connecticut | 1935 New York, New York |
| 1926 Madison, Wisconsin | 1936 Cincinnati, Ohio |
| 1927 Cleveland, Ohio | 1937 Washington, D. C. |
| 1928 New York, New York | 1938 New York, New York |
| 1929 Washington, D. C. | 1939 Minneapolis, Minnesota |

1940 Austin, Texas	1952 Boston, Massachusetts
1941 Boston, Massachusetts	1953 Toronto, Canada
1942 No meeting held	1954 Los Angeles, California
1943 No meeting held	1955 New Orleans, Louisiana
1944 No meeting held	1956 Minneapolis, Minnesota
1945 Pittsburgh, Pennsylvania	1957 Atlantic City, New Jersey
1946 Chicago, Illinois	1958 St. Louis, Missouri
1947 Ottawa, Canada	1959 Pittsburgh, Pennsylvania
1948 New York, New York	1960 Denver, Colorado
1949 El Paso, Texas	1961 Cincinnati, Ohio
1950 Washington, D. C.	1962 Houston, Texas
1951 Detroit, Michigan	1963 New York, New York

Recipients of the Roebling Medal

1937 Charles Palache	1953 William F. Foshag
1938 Waldemar T. Schaller	1954 Cecil Edgar Tilley
1940 Leonard James Spencer	1955 Alexander N. Winchell
1941 Esper S. Larsen, Jr.	1956 Arthur F. Buddington
1945 Edward H. Kraus	1957 Walter F. Hunt
1946 Clarence S. Ross	1958 Martin J. Buerger
1947 Paul Niggli	1959 Felix Machatschki
1948 William Lawrence Bragg	1960 Tom F. W. Barth
1949 Herbert E. Merwin	1961 Paul Ramdohr
1950 Norman L. Bowen	1962 John W. Gruner
1952 Fred E. Wright	1963 John Frank Schairer

Recipients of the Mineralogical Society of America Award

1951 Orville F. Tuttle	1957 Rustum Roy
1952 Frederick H. Stewart	1958 Charles E. Weaver
1953 L. H. Ahrens	1959 Harry F. W. Taylor
1954 Hatten S. Yoder, Jr.	1960 Donald L. Graf
1955 Julian R. Goldsmith	1961 Joseph V. Smith
1956 George C. Kennedy	1962 Douglas S. Coombs

1963 Nobuo Morimoto

1963 ANNUAL MEETING AT NEW YORK, NEW YORK

The meetings of the following societies were held November 17-20, 1963.

- The Geological Society of America—76th
- The Paleontological Society—55th
- The Mineralogical Society of America—44th
- Society of Economic Geologists—44th
- The Geochemical Society—8th