

PROCEEDINGS OF THE FORTY-FIFTH ANNUAL MEETING OF THE MINERALOGICAL SOCIETY OF AMERICA AT MIAMI BEACH, FLORIDA

GEORGE SWITZER, *Secretary*.

The forty-fifth meeting of the Society was held on November 19-21, 1964 at the Deauville Hotel, Miami Beach, Florida. The scientific sessions were integrated with those of the Geological Society of America and other affiliated societies. A total of 37 scientific sessions were held. Of these one was devoted to crystallography, one to mineralogy, three to petrology, one to organic geochemistry, two to inorganic geochemistry, one to planets and meteorites, and one to geochronology and geochemistry. In these sessions a total of 120 papers was presented.

The annual luncheon of the Society on November 20 was attended by 175 members and guests. Following the luncheon the twenty-second presentation of the Roebing Medal was made to Clifford Frondel and the fourteenth presentation of the Mineralogical Society of America Award was made to William Sefton Fyfe.

On the afternoon of November 20 the Society was addressed by Retiring President Leonard G. Berry on the subject "Recent Advances in Sulfide Mineralogy." The annual business meeting was held on the morning of November 21, at which reports were given by the Secretary, Treasurer, and Editor of *The American Mineralogist*.

ACTION OF THE 1964 COUNCIL AT ITS NOVEMBER 18, 1964 MEETING

The second meeting of the 1964 Council was held on November 18, 1964. The principal actions taken by the Council are summarized below:

Awards. The Council voted that in 1965 the Roebing Medal be awarded to Adolf Pabst and the Mineralogical Society of America Award to Peter J. Wyllie.

Election of Fellows. It was voted that a committee be appointed to restudy the criteria for Fellowship in the Society, and the procedure for nominating candidates for Fellowship.

The American Mineralogist. The Council passed the following motions with regard to *The American Mineralogist*:

- 1) That the Editor be asked to consider the possibility of the employment of a professional assistant editor to comb through manuscripts to improve their style and reduce their length.
- 2) That the Editor be asked to refer papers of purely local interest to appropriate journals.
- 3) That the Editor consider a stricter policy regarding accepting papers of purely chemical interest.
- 4) That the Council authorizes publication of up to 1800 pages in volume 50 of *The American Mineralogist*, and that the preceding motions were made to aid the Editor in attaining this target.

Announcement of Awards. It was voted that the Roebing Medalist and MSA Award recipient for each year shall be announced at the first business meeting following the Council meeting at which the award recipients are selected.

Change in By-Laws. A petition signed by the required number of Fellows was submitted suggesting a change in By-Laws covering the election of Fellows. Accordingly, the Council directed the Secretary to place on the 1965 ballot (to be voted on by Fellows only) the following change:

to By-Laws, Art. IV, Sect. 2a, add:

Nominations for Fellowship will be reviewed by a Fellowship nominating committee of five, one of whom is a member of the Council. It will become the duty of the Fellowship nominating committee to document its reasons for recommending that a nominee be deferred and this information will be available to the Council at the meeting at which the nominee is considered. Each nominee who has received a defer vote will be considered individually by the Council.

ACTION BY THE 1965 COUNCIL

The 1965 Council held its first meeting on November 21, 1964.

Editor of the American Mineralogist. The Council appointed E. Wm. Heinrich Editor for the year 1965.

Associate Editors of The American Mineralogist. The terms of Associate Editors Howard T. Evans, Jr. and Carleton A. Chapman expired at the end of 1964. The Council expressed its thanks to these gentlemen for their devoted service to the Society and voted to replace them for a three-year term beginning January 1, 1965 with Daniel E. Appleman and Stephen E. Clabaugh.

Index of The American Mineralogist. At the business meeting on November 21, 1964 D. J. Fisher suggested that a 50-year index to the American Mineralogist be prepared, including redoing the present index to volumes 1-20. This suggestion was considered by the Council, which then passed the following motion: that the index to volumes 1-20 not be redone, that the index to volumes 41-50 be prepared separately and be issued for sale both separately and bound with the preceding indexes.

Single Slate of Nominees for Councilor. Considerable dissatisfaction has been expressed by the membership over the present system of a dual slate of nominees for election of Councilors. This matter was discussed at length and then it was voted that the Council generate the mechanics for a vote by the Society membership that the nominating committee present to the Council a single slate of nominees for vacancies for officers and councilors of the Society.

Solicitation of Funds from Industry. The Board of Past Presidents suggested to the Council that it might be possible to raise money from industry if it was requested for a specific project. Accordingly, the Council voted to establish a committee to look into the matter of soliciting funds from industry to support its publication program.

Summer Meeting, 1966. It was voted that a Summer 1966 Meeting of the Society be held, subject to future developments.

Jubilee Celebration. The Executive Committee was asked to formulate plans for a jubilee celebration of the founding of the Society, to report to the Council in November 1965.

Interim Meeting, 1967. L. G. Berry tendered an invitation to the Society to hold an interim meeting at Queen's University, Kingston, Ontario, in May 1967 with the Mineralogical Association of Canada and the Geological Association of Canada. The Council voted to accept the invitation.

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

1965 COMMITTEES OF THE MINERALOGICAL SOCIETY OF AMERICA

<i>Nominating Committee for Fellows</i>	E. J. Weiss 1963-1965
L. G. Berry, Chairman 1965-1967	C. Burri 1964-1966
M. E. Mrose 1963-1965	J. J. W. Rogers 1964-1966
	L. B. Sand 1965-1967

Nominating Committee for Officers

R. M. Denning Chairman
 M. L. Keith
 S. C. Robinson,
 H. S. Yoder
 Ian Campbell
 H. Winchell

Roebing Medal Committee

W. S. Fyfe, Chairman
 J. W. Gruner
 K. H. Wedepohl
 S. O. Agrell
 A. C. Waters
 C. Frondel

MSA Award Committee

W. T. Pecora, Chairman
 C. S. Hurlbut, Jr.
 S. W. Bailey
 L. H. Ahrens
 G. Kullerud
 R. H. Jahns

Financial Advisory Committee

E. P. Henderson, Chairman 1965-1967
 A. Montgomery 1965-1967
 W. T. Pecora 1964-1966
 Marjorie Hooker, *ex officio*

Program Committee

L. R. Page

Auditing Committee

Joan R. Clark, Chairman
 P. E. Desautels
 Chas. W. Burnham

Mineralogical Abstracts

This committee makeup is left to L. G. Berry

Nomenclature Committee

G. T. Faust 1963-1965
 A. Pabst 1963-1965
 S. A. Forman 1964-1966
 H. Winchell 1964-1966
 Wilhelm Eitel 1965-1967
 T. F. Bates, Chairman 1965-1967

Endowment Fund Committee

P. F. Kerr, Chairman
 L. G. Berry
 Marjorie Hooker

Archivist

George Phair

National Medal of Science

G. T. Faust, Chairman *Ex-officio*
 J. R. Goldsmith
 H. S. Yoder
 E. F. Osborn

REPRESENTATIVES

American Geological Institute

Representative
 Ian Campbell 1963-1965
 Translations Committee
 M. Fleischer

National Research Council

F. Chayes 1963-1966
 J. J. Fahey (Advisory Board to Office of
 Critical Tables)

International Mineralogical Association

Representative
 D. J. Fisher
 Members of Commissions
 Abstracts—W. T. Holser
 Data—G. T. Faust
 New Minerals and Mineral Names—
 A. A. Levinson
 Museums—G. Switzer
 Teaching—Henry E. Wenden
 Ore Microscopy—E. N. Cameron
 Cosmic Mineralogy—B. Mason

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

President: Brian Mason
Vice President: Felix Chayes
Secretary: George Switzer
Treasurer: Marjorie Hooker
Councilors: (1966-1968, two to be elected)
 E. N. Cameron
 A. J. Frueh, Jr.
 W. D. Keller
 W. S. MacKenzie

REPORT OF THE SECRETARY FOR 1964
To the Council of the Mineralogical Society of America
 ELECTION OF OFFICERS AND FELLOWS

The ballots were counted on November 4, by a Tellers Committee composed of Hans H. Adler, David Gottfried, and the Secretary. Eight hundred and thirty-four ballots were cast in the election of officers and 211 in the election of fellows. The officers elected to serve in 1965 are:

President: George T. Faust
Vice President: Brian Mason
Secretary: George Switzer
Treasurer: Marjorie Hooker
Councilors: William S. Fyfe
 William T. Pecora

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

Dirk de Waard	Joseph A. Pask
Donald O. Emerson	Frank W. Stead
Robert M. Grogan	Anantharama P. Subramaniam
W. Barclay Kamb	Robert E. Wallace
J. H. Robert Kühn	Henry E. Wenden
Kurt E. Lowe	Joe L. White
Haydn H. Murray	Peter J. Wyllie

SUMMER MEETING

In July 1964 the Mineralogical Society of America held its first summer meeting, with the American Crystallographic Association, in Bozeman, Montana. There were two days of scientific sessions in which 41 papers were presented, and three days of field trips. The meeting was considered to be highly successful for a first attempt, and a second summer meeting, again with the American Crystallographic Association, has been scheduled for June 27-July 2, 1965 in Gatlinburg, Tennessee.

MEMBERSHIP STATISTICS

Membership in the Society in 1964 is shown in the following table. Figures for the preceding two years are given for comparison.

	November 1, 1964		
	1962	1963	1964
Honorary Fellows	4	4	3
Fellows	471	482	488
Members	1,593	1,670	1,776
	<hr/>	<hr/>	<hr/>
	2,068	2,156	2,267

During 1964 the Society lost through death nine fellows:

Isidor Fankuchen
 Henry J. Buttgenbach
 Joseph L. Gillson
 Paul D. Krynine
 Arthur A. Pegau
 Arie Poldervaart
 Sir Arthur Russell
 Chester B. Slawson
 Herman Yagoda

Respectfully submitted,
 GEORGE SWITZER, *Secretary*

REPORT OF THE TREASURER FOR 1964

(Year ending July 31, 1964)

To the Council of the Mineralogical Society of America:

SUMMARY STATEMENT

Operating cash, August 1, 1963	\$ 6,052.20	
Receipts, August 1, 1963-July 31, 1964	70,466.60	76,518.80
Disbursements, August 1, 1963-July 31, 1964	56,928.21	
Transfer to capital	12,851.25	
Operating cash, July 31, 1964	6,739.34	76,518.80
Assets, July 31, 1964		
Capital: Endowment Fund (Securities at market value) . .		222,717.00
includes Fifty-Plus Fund \$13,800.00		
Museum Fund 100.00		
Cash Contingency Fund		28,919.65
Operating cash		6,739.34
		<hr/>
		\$ 258,375.99

RECEIPTS

Dues		
Fellows	\$ 3,148.00	
Members	11,745.58	
Student members	1,219.18	\$ 16,112.76
Publications		
<i>American Mineralogist</i> subscriptions	21,547.50	
Geological Society of American grant	1,600.00	
Publication charges	628.10	
Sales—Reprints	11,540.99	
Back issues	3,072.79	
Advance royalties	1,000.00	
Special Paper Number One	2,080.21	
Index, vols. 1-20	75.10	
21-30	129.10	
31-40	252.35	

IMA Guidebooks	230.50	
IMA Symposia	223.80	
IMA World Directory	124.90	
Mailing list	146.42	
Advertising	1,536.45	44,188.21
Investments		
Dividends	7,587.14	
Interest	961.86	8,549.00
Income for Investment		
Fifty-Plus Committee	344.00	
Contributions	172.46	
Life memberships	480.00	996.46
Miscellaneous		
IMA reimbursement	102.15	
Legal fee reimbursement	518.02	620.17
Total receipts		\$ 70,466.60

DISBURSEMENTS

Publications		
<i>The American Mineralogist</i> (July 1963–June 1964)	\$ 37,558.46	
Reprints (May 1963–June 1964)	6,193.53	
Special Paper #1 (supplementary)	410.14	
Program and Abstracts	330.09	
Ten-year Index (1956–1965)	364.02	
Reprinting, National Capital Guidebook	150.00	
Back issues, storage	357.84	
supplies	33.84	
postage	300.00	
Mailing list rental	51.88	
IMA Symposia payments	372.84	
IMA World Directory payments	137.90	
Legal fees	518.02	
Subscription refunds	92.10	46,870.66
Office expense		
Editor: Secretarial	891.30	
Postage	167.26	
Supplies	132.40	
Telephone	105.85	
Travel	77.28	1,374.09
Secretary: Secretarial	246.00	
Printing	1,562.95	
Supplies	2.27	
Postage	406.60	
Telephone	27.83	
Travel	28.20	2,273.85
Treasurer: Secretarial	169.50	
Printing	886.18	
Supplies	594.29	

Postage	483.29	
Telephone	43.12	
Travel	28.20	
Annual meeting	63.45	
Miscellaneous	8.00	2,276.03
Officers' Honoraria		
Editor (July 1963–June 1964)	1,125.00	
Secretary (August 1963–July 1964)	1,000.00	
Treasurer (August 1963–July 1964)	1,000.00	3,125.00
Contributions, awards, etc.		
International Mineralogical Association dues, 1964	150.00	
American Geological Institute, 1964	482.00	
Roebing Medal, 1963	147.08	
MSA Award, 1963	168.00	947.08
Miscellaneous (Check charges, etc.)	61.50	61.50
		\$ 56,928.21

ENDOWMENT FUND

Amount	Security	Cost	Value ¹	Income ²
<i>Bonds</i>				
5M	New York Central	\$ 4,300.00	\$ 4,375.00	\$ 250.00
5M	Southern Railway	5,743.75	5,294.00	250.00
		\$ 10,043.75	\$ 9,669.00	\$ 500.00
<i>Preferred stocks</i>				
—	Fairbanks Whitney	—	—	120.00 ³
60	Jones and Laughlin, 5	\$ 4,987.50	\$ 6,300.00	\$ 300.00
40	Potomac Electric Power, 2.44	2,000.00	2,060.00	97.60
500	Union Pacific, 4	4,570.25	4,750.00	200.00
55	United States Steel, 7	6,946.20	8,450.00	385.00
50	Virginia Electric Power, 5	5,942.50	5,413.00	250.00
		\$ 24,446.45	\$ 26,973.00	\$1,352.60
<i>Common stocks</i>				
552	American Telephone and Telegraph	\$ 13,830.58	\$ 39,606.00	\$1,009.60 ⁴
50	Boston Insurance	1,500.00	1,950.00	90.00
100	Buckeye Steel Castings	3,800.00	3,775.00	105.00
278	Chase Manhattan Bank	11,378.04	20,989.00	502.05 ⁵
100	Chesapeake and Ohio Railway	5,237.44	7,813.00	400.00
300	Columbia Gas System	5,174.72	8,700.00	357.00
200	Columbus and Southern Ohio Electric	2,087.50	8,100.00	244.00 ⁶

¹ Approximate market value, August 1, 1964.

² Fiscal year ending July 31, 1964, except where noted.

³ Sold, May 1964; two quarter dividend.

⁴ Stock dividend, March 1964; stock split, July 1964.

⁵ Stock split, March 1964.

⁶ Stock split, June 1964.

100	Continental Can	4,051.56	5,138.00	200.00
150	Denison Mines	3,096.00	2,213.00	124.87
312	Diana Stores	4,694.01	3,473.00	— ⁷
150	General Portland Cement	2,934.69	3,713.00	180.00
508	Greyhound Corporation	2,300.00	12,954.00	330.20 ⁸
109	Hot Shoppes	2,420.58	2,807.00	— ⁹
100	International Pipe and Ceramics	2,619.44	2,100.00	50.00 ¹⁰
200	Kerr-McGee Company	8,128.26	8,950.00	60.00 ¹¹
300	Kroger Company	3,245.35	10,500.00	287.12 ¹²
100	Link Belt	4,792.90	6,325.00	270.00
50	Phelps Dodge Corp.	1,975.00	3,419.00	150.00
102	Pittsburgh Plate Glass	5,756.37	6,936.00	239.70
100	Plymouth Cordage Co.	4,750.00	8,300.00	320.00
100	Richfield Oil Corp.	4,348.83	5,775.00	315.00 ¹³
100	Southern Natural Gas Co.	3,600.00	5,838.00	220.00
100	Sunray DX Oil	2,342.63	3,100.00	280.00 ¹⁴
50	Washington Steel	1,293.75	1,238.00	— ¹⁵
100	Wisconsin Power and Light	2,304.75	2,363.00	— ¹⁶
		\$107,662.40	\$186,075.00	\$5,734.54
	Total	\$142,152.60	\$222,717.00	\$7,587.14

CASH CONTINGENCY FUND

<i>Account</i>	<i>Amount</i>
National Permanent Savings and Loan Association	\$15,125.43
Columbia Federal Savings and Loan Association	13,665.87
Riggs National Bank	128.35
	\$28,919.65

⁷ Stock dividend, November 1963, April 1964.⁸ Stock split, July 1964.⁹ Stock dividend, June 1964.¹⁰ Purchased, December 1963; two quarter dividend.¹¹ Purchased, May 1964; one quarter dividend.¹² Additional shares purchased, May 1964.¹³ 100 shares sold, May 1964.¹⁴ 100 shares sold, May 1964.¹⁵ Purchased, May 1964; no dividend received within the fiscal year.¹⁶ Purchased, May 1964; no dividend received within the fiscal year.*Income and Expense*

The year 1963-1964 has been one of continuing financial growth, with an increase in the value of our investments and a satisfactory margin between income and expense. There was a substantial gain in total income over that for the previous year, as shown in Table 1. The gain was the direct result of the increased subscription rate for *The American Mineralogist* and the revised schedule of reprint charges, both of which were Council actions to offset the withdrawal of Penrose funds and an anticipated increase in the cost of *The American Mineralogist*. The number of subscriptions to *The American Mineralogist*, both domestic and foreign, shows an increase. At the present time, 1596 copies are distributed on a paid basis compared with 1542 last year. Of these, 626 are delivered to sub-

scribers in all fifty states, the District of Columbia and Puerto Rico, and 970 are sent abroad to 82 countries on all continents.

Last 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 these will be ready for distribution in October 1964. This year, a second contract was negotiated with the same company for volumes 1-19 (1916-1934). With the completion of this reprinting, all volumes of the Journal will be in print. The issues of volumes 1-32 still in print have been placed with Kraus Periodicals, Inc. on consignment.

TABLE 1. INCOME

Income source	1962-1963		1963-1964	
	Amount	Percentage	Amount	Percentage
Dues.....	\$15,972.17	27.9	\$16,112.76	22.9
Publication program.....	28,670.08	50.1	44,188.21	62.7
Investments.....	8,164.68	14.3	8,549.00	12.1
Income for investment.....	3,362.34	5.9	996.46	1.4
Reimbursement.....	1,072.49	1.8	620.17	0.9
	<u>\$57,241.76</u>	<u>100.0</u>	<u>\$70,466.60</u>	<u>100.0</u>

TABLE 2. DISBURSEMENTS

Disbursement	1962-1963		1963-1964	
	Amount	Percentage	Amount	Percentage
Publication program.....	\$46,329.10	87.8	\$46,870.66	82.3
Office expense.....	3,643.69	6.9	5,923.97	10.4
Officers' honoraria.....	1,750.00	3.3	3,125.00	5.5
Contributions, etc.....	815.88	1.5	1,008.58	1.8
IMA fund advance.....	231.79	0.4	—	—
	<u>\$52,770.46</u>	<u>100.0</u>	<u>\$56,928.21</u>	<u>100.0</u>

The Society also negotiated on March 6, 1964 an agreement with University Microfilms, Inc. of Ann Arbor, Michigan, under which they will refrain from further reproduction or sale of the microfilm or copies of *The American Mineralogist*. University Microfilms had previously microfilmed and offered for sale volumes 1-46 (1916-1961) without prior permission of the Society.

The disbursements during 1963-1964 are higher than last year. The amount paid out for the total of the various items in the publication program remains about the same, even though there have been changes within the program. The number of copies of the Program and Abstracts purchased from the Geological Society of America was considerably less as a result of the revised method of distribution. Office expense has risen, due in part to normal increases in printing and postage costs attendant on increased membership,

subscriptions and other business activity. This year, however, approximately \$1,000 of the Secretary's office expense is attributable to the cost of printing and distributing the announcements, program, and abstracts for the first summer meeting held in Bozeman, Montana, July 26-31, 1964, in conjunction with the meeting of the American Crystallographic Association.

Endowment Fund and Cash Contingency Fund

The book value of the Endowment Fund securities on August 1, 1964, was \$142,152.60 compared with \$136,280.54 on August 1, 1963. Of this amount, 7.1% is in bonds, 17.2% in preferred stock, and 75.7% in common stock. The market value, computed on the same date, was \$222,717.00. Dividends and interest from the securities totaled \$7,587.14, near to the estimated figure of \$7,500.00. From the current holdings, an income of \$7,750.00 is estimated for 1964-1965. The percentage yields of each type of security, at both book and market values, are given in Table 3.

Table 4 lists the amounts received for investment from members of the Fifty-Plus Committee and constitutes the final report of the committee as a separate entity. As anticipated, the total has exceeded \$13,000.00.

TABLE 3. SECURITIES

Class	Book value	Percentage Yield	Book market	Percentage Yield
Bonds	10,043.75	4.98	9,669.00	5.17
Preferred stock	24,446.45	5.53	26,973.00	5.02
Common stock	107,662.40	5.33	186,075.00	3.08
	<u>\$142,152.60</u>	<u>5.33</u>	<u>\$222,717.00</u>	<u>3.41</u>

TABLE 4. FIFTY-PLUS FUND

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
1963-1964	344.00	13,800.00

Mineralogical Abstracts

Four numbers of *Mineralogical Abstracts* (vol. 15, no. 8; vol. 16, nos. 1-3) were published in 1963 and distributed approximately as follows: 1235 copies to members of the two societies—750 members of the British society and 835 members of the American society (350 of these are members of both societies and therefore receive their copies as members of the British society), and 640 copies on a paid basis to various institutional subscribers.

In recent months the British society has been changing from a calendar fiscal year to one ending June 30. The figures given here thus cover an eighteen-month period, January 1963 through June 30, 1964. Total income was approximately \$21,000, this amount reflecting the increased subscription rate that went into effect at the beginning of 1963 for both members and subscribers. Expenses totaled approximately \$24,000, covering the cost of the normal six issues for the interval and in addition the cost of one of the two issues in arrears of payment, about \$2,600. Thus the gap between income and expense has been closed to a certain extent, but imminent increases in publication costs resulting from enlargement of the journal make a reassessment of subscription rates desirable and necessary.

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 superior work on the 1964 membership directory; Rita Ehrmann, for her competent direction of advertising in *The American Mineralogist*; Edward P. Henderson, Arthur Montgomery, and William T. Pecora, of the Financial Advisory Committee, for their capable management of our investments; Stanly Carr and Herbert Allen 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 George 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 these people and their particular responsibilities, I extend my personal thanks to the members 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 October 29, 1964, the auditing committee examined the accounts of the Treasurer of the Society and found them in excellent order for the fiscal year, August 1963–July 1964. The Treasurer is once again to be highly commended for her efficient care and organization of the accounts of the Society.

The Treasurer, as was suggested in last year's auditing report, has prepared a list of the nature, value and location of the office equipment belonging to the Society. This list is on file with the Secretary.

In the opinion of the auditing committee the Society is now in excellent financial condition.

Respectfully submitted,

DAVID B. STEWART, *Chairman*

JOAN R. CLARK

PAUL E. DESAUTELS

REPORT OF THE EDITOR FOR 1964

PUBLICATION RESULTS

For 1964 the Council of Mineralogical Society of America authorized an increase of 300 pages for *The American Mineralogist* to a total of 1800. I am happy to report that we have been able to adhere closely to that directive: the total for 1964 is 1803 pages. This includes 97 major papers, and 70 Notes.

MANUSCRIPT RECEIPTS

The year was marked by a major increase in both number of manuscripts received and in total volume:

	<i>Major MS</i>	<i>Notes MS</i>	<i>Total</i>
1963.....	116	79	195
1964.....	152	92	244
Increase, 1964.....	31%	16%	

Thus, although we have increased our printed total by 20%, we have not managed to stay even with the increase in our receipts.

MANUSCRIPT BACKLOG

As of February 1, 1965 there were on hand the following (not including manuscripts in press for the January-February number, 1965):

	<i>Major MS</i>	<i>Notes MS</i>	<i>Total</i>
Accepted for publication.....	43	28	71
Being reviewed or revised.....	41	18	59
Totals.....	84	46	130

These totals include a very small number of manuscripts held over from 1963, owing to delay in revision by authors.

MANUSCRIPT EVALUATION

Obviously the marked increase in manuscripts received (both total number and volume) requires even more careful scrutiny and quality control. The problem is complicated by a number of factors:

1. Lack of referees who are willing to review manuscripts and also are capable of preparing critically significant reviews on highly specialized subjects. On several cases the opinions of a second referee were in opposition to those of the first.
2. Lack of information on the previous history of a manuscript. Several cases were discovered in which a manuscript had previously been reviewed for another journal, had been rejected or returned for revision and then was submitted *without change* for consideration to our office.
3. Strong efforts on the part of a very few authors to reject any and all criticism of their manuscripts.

During 1964 strenuous efforts were made to evaluate all manuscripts more critically than ever before, but it is clear that these efforts must be intensified still more.

The results of manuscript evaluation, 1964, may be expressed as follows:

Rejected or withdrawn,	Major MS	12%
	Notes MS	14%
Returned for revision or rewriting	Major MS	59%
	Notes MS	28%
Accepted with only minor changes or accepted as is	Major MS	29%
	Notes MS	58%

It is clear, however, that even with greater quality control of manuscripts and with continued larger size of the 1965 volume, the "publication interval," *i.e.*, the time between acceptance of a manuscript and its appearance in print will be increased somewhat next

year over that which we have enjoyed during 1963 and 1964, namely an average of 6-7 months.

DISTRIBUTION OF MANUSCRIPTS BY SOURCE

The international nature of authorship continues as in previous years. Countries represented outside of the United States include (with number of published papers): Australia (5), Brazil (3), Canada (8), Chile (1), England (6), Germany (1), India (5), Israel (1), Japan (3), Malaysia (1), Netherlands (1), Scotland (4), South Africa (1), Switzerland (1), Tasmania (1), Wales (1), and Yugoslavia (2). The percentage of papers of foreign origin was 23%.

For the first time an analysis has been made on the basis of the nature of the organization to which the author belongs:

	% of papers
Universities and Colleges	61
U. S. Geological Survey	16
Other federal agencies	2
State geological surveys	<1
Commercial research laboratories	12
Endowed research laboratories	ca. 1
Foreign geological surveys	7
	100

CRITICS

The society owes much to the abilities and generosity of its Associate Editors, who have worked diligently and with distinction in attempting to prove and improve the quality of manuscripts: Carleton A. Chapman, Howard T. Evans, Jr., Donald L. Graf, Alfred J. Frueh, Jr., Ivan H. Milne and William T. Holser.

Others who have served as critics during 1964 include:

H. H. Adler	W. G. Ernst	A. A. Levinson
Isadore Adler	H. P. Eugster	R. J. P. Lyon
A. L. Albee	G. T. Faust	B. H. Mason
D. E. Appleman	D. J. Fisher	J. B. Mertie
S. W. Bailey	Michael Fleischer	Charles Meyer
Fred Barker	M. D. Foster	R. S. Mitchell
W. A. Bassett	Clifford Frondel	E. A. Monroe
T. F. Bates	J. W. Frondel	M. E. Mrose
F. D. Bloss	R. B. Graf	D. C. Noble
F. R. Boyd, Jr.	R. E. Grim	E. W. Nuffield
W. F. Bradley	R. L. Hay	Adolf Pabst
L. I. Briggs	P. M. Hurley	D. R. Peacor
G. W. Brindley	H. W. Jaffe	E. C. Robertson
E. N. Cameron	E. A. Jenne	E. H. Roseboom, Jr.
E. C. T. Chao	W. D. Keller	D. M. Shaw
Felix Chayes	W. C. Kelly	L. T. Silver
P. L. Cloke	P. F. Kerr	D. R. Simpson
A. J. Cohen	J. A. Kohn	B. J. Skinner
R. M. Denning	F. J. Kuellmer	J. V. Smith
J. D. H. Donnay	Gunnar Kullerud	Hugo Steinfink

J. D. Stephens	A. H. Truesdell	A. Volborth
Hugo Strunz	George Tunell	C. E. Weaver
George Switzer	O. F. Tuttle	A. D. Weeks
T. P. Thayer	Alvin Van Valkenburg, Jr.	Horace Winchell
J. B. Thompson	J. A. Vance	H. S. Yoder, Jr.

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
1943 John F. Schairer
1944 R. C. Emmons
1945 Kenneth K. Landes
1946 Paul F. Kerr
1947 M. J. Buerger

† Deceased.

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
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

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†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.
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 1951 Michael Fleischer
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 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
 1964 George T. Faust

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

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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.

† Deceased.

- 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.
 1964 Francis J. Turner, Hatten S. Yoder, Jr., W. F. Bradley, Howard T. Evans, Harold L. James, Joseph V. Smith.

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	1953 Toronto, Canada
1941 Boston, Massachusetts	1954 Los Angeles, California
1942 No meeting held	1955 New Orleans, Louisiana
1943 No meeting held	1956 Minneapolis, Minnesota
1944 No meeting held	1957 Atlantic City, New Jersey
1945 Pittsburgh, Pennsylvania	1958 St. Louis, Missouri
1946 Chicago, Illinois	1959 Pittsburgh, Pennsylvania
1947 Ottawa, Canada	1960 Denver, Colorado
1948 New York, New York	1961 Cincinnati, Ohio
1949 El Paso, Texas	1962 Houston, Texas
1950 Washington, D. C.	1963 New York, New York
1951 Detroit, Michigan	1964 Miami Beach, Florida
1952 Boston, Massachusetts	

Recipients of the Roebling Medal

1937 Charles Palache	1954 Cecil Edgar Tilley
1938 Waldemar T. Schaller	1955 Alexander N. Winchell
1940 Leonard James Spencer	1956 Arthur F. Buddington
1941 Esper S. Larsen, Jr.	1957 Walter F. Hunt
1945 Edward H. Kraus	1958 Martin J. Buerger
1946 Clarence S. Ross	1959 Felix Machatschki
1947 Paul Niggli	1960 Tom F. W. Barth
1948 William Lawrence Bragg	1961 Paul Ramdohr
1949 Herbert E. Merwin	1962 John W. Gruner
1950 Norman L. Bowen	1963 John Frank Schairer
1952 Fred E. Wright	1964 Clifford Frondel
1953 William F. Foshag	

Recipients of the Mineralogical Society of America Award

1951 Orville F. Tuttle	1958 Charles E. Weaver
1952 Frederick H. Stewart	1959 Harry F. W. Taylor
1953 L. H. Ahrens	1960 Donald L. Graf
1954 Hatten S. Yoder, Jr.	1961 Joseph V. Smith
1955 Julian R. Goldsmith	1962 Douglas S. Coombs
1956 George C. Kennedy	1963 Nobuo Morimoto
1957 Rustum Roy	1964 William S. Fyfe

1964 ANNUAL MEETING AT MIAMI BEACH, FLORIDA

The meetings of the following societies were held November 19-21, 1964.

- The Geological Society of America—77th
- The Paleontological Society—56th
- The Mineralogical Society of America—45th
- Society of Economic Geologists—45th
- The Geochemical Society—9th