

PROCEEDINGS OF THE FORTY-SIXTH ANNUAL
MEETING OF THE MINERALOGICAL SOCIETY OF
AMERICA AT KANSAS CITY, MISSOURI

GEORGE SWITZER, *Secretary*

The forty-sixth meeting of the Society was held on November 4-6, 1965 at the Hotel Muehlebach, Kansas City, Missouri. The scientific sessions were integrated with those of the Geological Society of America and other affiliated societies. A total of 41 scientific sessions were held. Of these two were devoted to mineralogy, five to petrology, one to organic geochemistry and three to inorganic geochemistry. In these sessions 114 papers were presented.

The annual luncheon of the Society on November 5 was attended by 125 members and guests. Following the luncheon the twenty-third presentation of the Roebling Medal was made to Adolf Pabst and the fifteenth presentation of the Mineralogical Society of America Award was made to Peter J. Wyllie.

On the morning of November 4 the Society was addressed by Retiring President George T. Faust on the subject, "The Hydrous Nickel-Magnesium Silicates." The annual business meeting was held on the morning of November 4, at which reports were given by the Secretary, Treasurer, and Editor of the American Mineralogist.

ACTION OF THE 1965 COUNCIL AT ITS NOVEMBER 3, 1965 MEETING

The second meeting of the 1965 Council was held on November 3, 1965. The principal actions taken by the Council are summarized below:

Awards. The Council voted that in 1966 the Roebling Medal be awarded to Max H. Hey and the Mineralogical Society of America Award to David B. Stewart.

Society Funds in Savings and Loan Accounts. The Council voted that Society funds in a savings and loan account must not exceed the maximum covered by Federal Deposit Insurance Corporation insurance.

Withdrawal of W. T. Pecora as Councilor. The Council voted to accept with regret the withdrawal of William T. Pecora as Councilor. Walter D. Keller was appointed to fill out his term (1965-1967).

Mineralogical Abstracts. This journal is published jointly by the Mineralogical Society of Great Britain (MSGB) and the Mineralogical Society of America. The Council of the MSGB has made a number of recommendations for changes and improvements in operational procedures. These recommendations include appointment of Dr. Robert A. Howie as editor beginning in September 1966, and appointment of five sub-editors and sub-indexers. After lengthy discussion it was agreed that the matters raised by the British society are of such fundamental importance as to require careful study, and that a meeting of the minds would be difficult to arrive at by correspondence. It was, therefore, voted that: Dr. Robert A. Howie and Dr. Leonard G. Berry be invited to come to the United States to look into recent technological developments in Automatic Data Processing systems, in order to consider enlarging the scope of the suggested changes in the management of *Mineralogical Abstracts*; to discuss the amount to be paid into the *Mineralogical Abstracts* account by both societies for members; and to discuss plans for getting new subscribers.

Endowment Fund Committee. A report on the activities of this committee was given by Marjorie Hooker. A letter has been composed to be sent to a selected group of industrial subscribers. This letter will ask for reaction to a contribution of \$200 a year for five years, the fund so created to be used to increase the size of the American Mineralogist.

American Geological Institute. The matter of the present practice of MSA stipulation of Fellows was discussed. It was voted that the society retain the status quo with regard to

stipulation of fellows until such time as AGI discontinues sending *Geotimes* to all members.

The American Mineralogist. It was voted that the Editor be authorized to seek professional editorial help as he sees fit to the extent of a maximum expenditure of \$5,000 per year.

Summer Meeting 1966. This meeting will be held May 6, 7 and 8 with the Lake Superior Institute.

Summer Meeting 1967. The date of this meeting, with the Mineralogical Association of Canada, has been changed to August 28–September 3, 1967.

Amendment to the Constitution. A petition signed by the required number of members and fellows was submitted proposing an amendment to the Constitution. The proposed amendment would replace the present Section 1, Article III, which now reads:

Article III. Officers

Section 1. The officers of the Society shall be a president, a vice-president, a treasurer and a secretary, who shall be elected annually. There shall be a council consisting of the above officers, the retiring president, and six fellows at large, two of the latter to be elected each year for terms of three years.

The proposed amendment reads:

The officers of the society shall be a president, a vice-president, a secretary, and a treasurer. These four officers, the retiring president, and six fellows at large shall constitute the council. The president and vice-president shall each be elected annually for a term of one year; no person shall serve more than one term in each office. The secretary and treasurer shall each be elected biennially, in alternate years, for a term of two years, except that the first election following the adoption of this amendment shall be for both officers, the secretary to serve a term of two years, and the treasurer, a term of one year. No person shall serve in either office more than two terms, whether consecutive or separated. A vacancy occurring in any office between annual election periods may be filled until the next regularly scheduled election and installation of officers by a past incumbent or other fellow appointed by a two-thirds vote of the Council. The six fellows at large for the Council shall be elected two each year for terms of three years. No elected fellow shall serve more than one term.

Free Reprints. The Council voted that henceforth authors of articles in the *American Mineralogist* be given 50 free reprints, regardless of the number purchased.

ACTION BY THE 1966 COUNCIL

The 1966 Council held its first meeting on November 5, 1965.

Editor of The American Mineralogist. The Council appointed E. Wm. Heinrich Editor for the year 1966.

Associate Editors of The American Mineralogist. The terms of Associated Editors Donald L. Graf and Alfred J. Frueh, Jr. expired at the end of 1965. 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, 1966 with Arthur F. Hagner and Vernon J. Hurst.

Editor of The American Mineralogist for 1967. E. Wm. Heinrich notified the Council that he wished 1966 to be his last year as Editor of the *American Mineralogist*. J. V. Smith asked that it be placed on record that the Editor had carried out his duties in a very satisfactory manner and that the journal is now internationally recognized as being of high caliber.

50th Anniversary Celebration. The society will be 50 years old in 1969, and in commemoration of this event the Council voted to hold a two day meeting, possibly at a

nearby university, preceding the 1969 annual meeting with the Geological Society of America in Atlantic City.

Program Policy Committee. It was voted that a Program Policy Committee be established. This committee shall annually examine the programs of the Society, shall entertain and appraise proposals of new programs, and shall consider activities, such as symposia, special lectures, special meetings, and institutes, by which the Society may most effectively contribute to the advancement of the science of mineralogy. The Committee shall make formal recommendations on programs to the incoming Council at each annual meeting of the Society. The Committee shall consist of the immediate Past-President, *Chairman*, Vice-President, and three members at large, appointed for three years, one new member appointed each year.

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

1966 COMMITTEES OF THE MINERALOGICAL SOCIETY OF AMERICA

Nominating Committee for Fellows

W. D. Keller, Chairman
C. Burri, 1964-1966
J. J. W. Rogers, 1964-1966
L. B. Sand, 1965-1967
L. G. Berry, 1965-1967

C. L. Christ
J. B. Thompson
N. Morimoto

Finance Committee

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

Nominating Committee for Officers

Joan R. Clarke, Chairman
R. V. Dietrich
H. W. Jaffe
R. C. Erd
L. Moyd
P. J. Wyllie

MSA Representative on GSA Program Committee

L. H. Larsen

Auditing Committee

Chas. W. Burnham, Chairman
P. E. Desautels
E. F. Osborn

Roebling Medal Committee

Felix Chayes, Chairman
R. A. Howie
K. Yagi
E. H. Nickel
S. S. Goldich

Mineralogical Abstracts

L. G. Berry, Chairman

Nomenclature Committee

G. T. Faust, Chairman
J. A. Mandarino
S. A. Forman
H. Winchell
W. Eitel
J. J. Papike

Archivist

George Phair

Program Policy Committee

G. F. Faust, Chairman
F. Chayes
O. F. Tuttle, 1966
D. B. Stewart, 1966-1967
T. Zoltai, 1966-1968

MSA Award Committee

J. V. Smith, Chairman
W. A. Deer
A. J. Frueh

50th Anniversary Celebration Committee

G. T. Faust, Chairman

REPRESENTATIVES

<i>American Geological Institute</i>	<i>International Mineralogical Association</i>
Representative Ian Campbell, 1966-1968	Representative D. J. Fisher
Translations Committee M. Fleischer	Members of Commissions Abstracts—W. T. Holser Data—G. T. Faust New Minerals and Mineral Names— A. A. Levinson Museums—G. Switzer Teaching—H. E. Wenden Ore Microscopy—E. N. Cameron Cosmic Mineralogy—B. Mason
<i>National Research Council</i>	
R. M. Garrells, 1965-1968 J. J. Fahey (Advisory Board to Office of Critical Tables)	

Nominations for Officers for 1966. The following slate was proposed by the Nominating Committee and approved by the Council, except for the Office of Secretary. The Committee nominated the present incumbent, who asked that his name be withdrawn. The nominees given below were selected by the council:

President: Felix Chayes
Vice President: Charles A. Anderson
Secretary: Ralph J. Holmes
Treasurer: Marjorie Hooker
Councilors: Robert G. Coleman
 James W. Earley
 Donald L. Graf
 Robert J. Trail

REPORT OF THE SECRETARY FOR 1965

To the Council of the Mineralogical Society of America

ELECTION OF OFFICERS AND FELLOWS

The ballots were counted on October 21, 1965 by a Teller's Committee composed of Daniel Appleman, Robert Meyrowitz, and the Secretary. Nine hundred and sixty-one ballots were cast in the election of officers and 235 in the election of fellows. The officers elected to serve in 1966 are:

President: Brian Mason
Vice President: Felix Chayes
Secretary: George Switzer
Treasurer: Marjorie Hooker
Councilors: Eugene N. Cameron
 William S. Mackenzie

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

Philip M. Bethke	Ernest G. Ehlers
Michael G. Bown	Knut S. Heier
John F. Burst	Joseph A. Mandarino
Roy S. Clarke, Jr.	Richard S. Mitchell
Hubert Curien	Eugene H. Roseboom

Elmer B. Rowley
 Robert S. Roth
 Leon Silver

Harry W. Smedes
 Priestly Toulmin
 Tibor Z. Zoltai

The suggested changes in the By-Laws, Article IV, Section 2, passed by a vote of 191 for and 19 against. The result is to add to the By-Laws, Article IV, Section 2, the following:

Section 2. (a) 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.

Present Section 2 remains unchanged and becomes Section 2 (b).

The society held its second summer meeting with the American Crystallographic Association in Gatlinburg, Tennessee, June 27-July 2, 1965. There were two days of scientific sessions at which 41 papers were given, and two days of field trips. The papers and field trips were excellent, and the meeting very well organized primarily because of the efforts of Dr. Otto Kopp MSA representative on the local committee. Unfortunately, the attendance by MSA members was very poor.

Professor William R. Brown was the society's representative at the Centennial Celebration of the founding of the University of Kentucky on February 22, 1965. Your Secretary represented the society at the Smithsonian Institution's Bicentennial Celebration of the Birth of James Smithson on September 16, 1965.

MEMBERSHIP STATISTICS

Membership in the society in 1965 is shown in the following table. Figures for the preceding two years are given for comparison:

	November 1, 1965		
	1963	1964	1965
Honorary Fellows.....	4	3	3
Fellows.....	482	488	478
Members.....	1,670	1,776	1,880
	<hr/>	<hr/>	<hr/>
	2,156	2,267	2,361

During 1965 the society lost through death ten fellows:

- Penti Eskola
- John Fairchild
- R. P. D. Graham
- O. R. Grawe
- J. E. Hawley
- Arthur Holmes
- Charles D. Jeffries
- William J. Miller
- Tomas Tryggvason
- L. R. Wager

Respectfully submitted,
 GEORGE SWITZER, *Secretary*

REPORT OF THE TREASURER FOR 1965

(Year ending July 31, 1965)

To the Council of the Mineralogical Society of America:

SUMMARY STATEMENT

Operating cash, August 1, 1964.....	\$ 6,739.34	
Receipts, August 1, 1964-July 31, 1965.....	70,885.88	\$ 77,625.22
Disbursements, August 1, 1964-July 31, 1965.....	60,912.15	
Transfer to capital.....	7,030.74	
Operating cash, July 31, 1965.....	9,682.33	77,625.22
Assets, July 31, 1965		
Capital: Endowment Fund (Securities at market value).....		227,583.00
includes Museum Fund of 100.00		
Cash Contingency Fund.....		30,551.20
Operating cash.....		9,682.33
Total.....		<u>267,816.53</u>

RECEIPTS

Dues		
Fellows.....	\$ 3,121.64	
Members.....	12,815.51	
Student Members.....	1,362.20	17,299.35
Publications		
<i>American Mineralogist</i> subscriptions.....	23,408.08	
Sales: Reprints.....	9,981.78	
Back issues.....	3,908.37	
Advance royalties.....	1,000.00	
Special Paper Number One.....	1,239.55	
Index, vols. 1-20.....	45.00	
21-30.....	81.00	
31-40.....	148.50	
IMA Guidebooks.....	76.00	
IMA Symposia.....	120.64	
IMA World Directory.....	57.00	
Mailing list.....	500.53	
Advertising.....	3,183.30	43,749.75
Investments		
Dividends.....	8,019.98	
Interest.....	1,224.69	9,244.67
Income for Investment		
Contributions.....	265.50	
Life membership.....	160.00	425.50
Miscellaneous: Registration fees, 1964 summer meeting....	166.61	166.61
Total receipts.....		<u>\$ 70,885.88</u>

DISBURSEMENTS

Publications

<i>The American Mineralogist</i>		
(July 1964–April 1965, five issues)	\$37,620.63	
Reprints (July 1964–April 1965, five issues)	3,817.46	
Mineralogical Abstracts	2,802.05	
Special Paper Number One	1,771.63	
Ten-year Index (1956–1965)	175.00	
Back issues: Reprinting	948.14	
Storage	284.28	
Supplies	53.52	
Postage	300.00	
Field Guidebook, 1965	339.02	
IMA World Directory	66.00	
Legal Fee	202.43	
Mailing List	77.33	
Subscription Refunds	69.00	
Miscellaneous	33.12	\$ 48,559.61

Meetings

Annual, 1964: Program and Abstracts	515.90	
Miscellaneous	20.65	
1965: Circular Announcements	220.90	
Summer, 1964: Miscellaneous	38.00	
1965: Local Committee, advance funds	600.00	
Printing, announcements, program, and abstracts	817.96	
Postage	165.00	
Assistance	80.25	2,458.66

Office Expense

Editor:	Secretarial	1,047.50	
	Postage	268.84	
	Telephone	124.65	
	Printing & Supplies	96.25	1,537.24
Secretary:	Secretarial	156.50	
	Travel	248.52	
	Telephone	39.06	
	Postage	170.55	
	Printing	1,089.76	1,704.39
Treasurer:	Assistance	446.50	
	Travel	248.52	
	Postage	595.00	
	Telephone	55.99	
	Supplies	18.51	
	Printing	791.21	2,155.73

Officers' Honoraria:

Editor (July 1964–June 1965)	1,500.00	
Secretary (August 1964–July 1965)	1,000.00	
Treasurer (August 1964–July 1965)	1,000.00	3,500.00

Contributions, Awards, etc.		
International Mineralogical Association, dues.....	150.00	
American Geological Institute, 1965.....	488.00	
American Association for the Advancement of Science, dues.....	20.00	
Roebling Medal.....	146.28	
MSA Award, 1964.....	169.00	973.28
Miscellaneous: Check charges.....	23.24	23.24
Total Disbursements.....		\$ 60,912.15

ENDOWMENT FUND

<i>Amount</i>	<i>Security</i>	<i>Cost</i>	<i>Value</i> ¹	<i>Income</i> ²
<i>Bonds</i>				
5M	New York Central.....	\$ 4,300.00	\$ 4,475.00	\$ 250.00
5M	Southern Railway.....	5,743.75	5,150.00	250.00
		\$ 10,043.75	\$ 9,625.00	\$ 500.00
<i>Preferred Stocks</i>				
60	Jones & Laughlin, 5.....	\$ 4,987.50	\$ 6,285.00	\$ 300.00
—	Potomac Electric, 2.44.....	—	—	48.80 ³
500	Union Pacific, 4.....	4,570.25	4,750.00	200.00
55	United States Steel, 7.....	6,946.20	8,388.00	385.00
20	Virginia Electric Power, 4.80.....	2,122.95	2,090.00	48.00 ⁴
50	Virginia Electric Power, 5.....	5,942.50	5,425.00	250.00
		\$ 24,569.40	\$ 26,938.00	\$ 1,231.80
<i>Common Stocks</i>				
552	American Telephone & Telegraph... .	\$ 13,830.58	\$ 36,846.00	\$ 1,104.00
50	Boston Insurance.....	1,500.00	1,700.00	90.00
121	Buckeye Steel Castings.....	3,800.00	3,751.00	129.00 ⁵
278	Chase Manhattan Bank.....	11,378.04	18,279.00	542.10
100	Chesapeake & Ohio Railway.....	5,237.44	6,950.00	400.00
300	Columbia Gas System.....	5,174.72	9,450.00	375.00
200	Columbus & Southern Ohio.....	2,087.50	8,600.00	262.00
100	Continental Can.....	4,051.56	5,475.00	200.00
150	Denison Mines.....	3,096.00	4,088.00	125.21
330	Diana Stores.....	4,694.01	4,290.00	45.97 ⁶
150	General Portland Cement.....	2,934.69	2,550.00	180.00
508	Greyhound Corporation.....	2,300.00	10,986.00	419.10
100	International Pipe & Ceramics....	2,619.44	2,238.00	100.00
200	Kerr-McGee Company.....	8,128.26	11,900.00	240.00
70	Kimberley-Clark.....	3,824.69	3,465.00	35.00 ⁷

¹ Approximate market value, August 1, 1965.² Fiscal year ending July 31, 1965, except where noted.³ Sold, January 1965; two-quarter dividend.⁴ Purchased, January 1965; two-quarter dividend.⁵ Stock dividend, June 1965.⁶ Stock dividend, October 1964 and April 1965.⁷ Purchased, April 1965; one-quarter dividend.

300	Kroger Company.....	3,245.35	11,738.00	352.50
100	Lear Siegler.....	1,496.75	1,613.00	12.50 ⁸
150	Link-Belt.....	4,792.90	5,756.00	307.50 ⁹
227	Marriott-Hot Shoppes.....	2,426.74	5,789.00	— ¹⁰
50	Phelps Dodge Corporation.....	1,975.00	3,513.00	165.00
102	Pittsburgh Plate Glass.....	5,756.37	7,293.00	244.80
100	Plymouth Cordage Company.....	4,750.00	5,650.00	260.00
100	Richfield Oil Corporation.....	4,348.83	5,750.00	180.00
200	Southern Natural Gas Co.....	3,600.00	6,750.00	225.00 ¹¹
100	Sunray DX Oil.....	2,342.63	3,025.00	140.00
50	Washington Steel.....	1,293.75	1,125.00	62.50
100	Wisconsin Power & Light.....	2,304.75	2,450.00	91.00
		112,990.00	191,020.00	6,288.18
	Total.....	\$147,603.15	\$227,583.00	\$ 8,019.98

⁸ Purchased, April 1965; one-quarter dividend.

⁹ Stock dividend, May 1965.

¹⁰ Stock dividend, June 1965.

¹¹ Stock dividend, June 1965.

CASH CONTINGENCY FUND

<i>Account</i>	<i>Amount</i>
National Permanent Savings & Loan Association.....	\$15,778.58
Columbia Federal Savings & Loan Association.....	14,220.77
Riggs National Bank.....	551.85
	<hr/>
	\$30,551.20

Income and Expense

Although the state of the Society's finances is satisfactory and the value of our investments has increased, the margin between income and expense has dropped by a considerable amount. Part of this is due to non-recurrent expense that fell within the fiscal year. Another part, however, is not entirely shown by the figures as will be explained in the discussion.

The gain in total income over last year is slight, about \$400.00. Increases in dues and subscription payments and in advertising revenue were offset by the closing out of the Penrose grant from the Geological Society of America and smaller income from the sale of publications. The number of library subscriptions to *The American Mineralogist* increased to 1,691 copies from last year's figure of 1,596. Of these, 659 are delivered within the United States and 1,032 are sent abroad to 84 countries on all continents.

Expense for 1964-65, as shown on the books, has risen by \$4,000 over the previous year. However, if the payment for the normal six issues of *The American Mineralogist* rather than five had fallen within the fiscal year, the increase would have been \$10,000. Three items are chiefly responsible. One is the planned increase in the number of pages in the journal for which a sum of \$45,000 was budgeted. For the coming year, beginning September 1965, we are also faced with a 7½% increase in printing cost, the result of wage and material increases in the printing industry. This means that the printing of *The American Mineralogist* at its present size of 1,800 pages will cost about \$48,000 annually for the next few years. The current income from dues and subscriptions of approximately \$40,700 thus will fail to cover the printing cost by a considerable amount, and if we add the Editor's expenses and honorarium, by an even larger sum. It is a matter of prime concern, therefore, to consider how the cost of maintaining the journal at its present standard is to be met.

The second item is meeting expense. With the revision a few years ago of the method of distributing the Program and Abstracts of the annual meeting, a considerable saving on that item was effected. Now, with the increased cost of the Program and institution of charges for the meeting announcements, this item has again risen. The cost this year was \$750 compared with \$330 last year. A larger item has been the expense for the summer meetings held in 1964 and 1965. The cost of the 1964 meeting, including officers' travel and the publication of the program and the abstracts in the journal, amounted to \$2,060. Final figures are not yet available for the 1965 meeting but the amount expended for announcements, program, abstracts, and field trip guidebook is approximately \$1,400.

The third item is the capital contribution of \$2,800 toward the support of *Mineralogical Abstracts*. While such an item is not an annual recurrent expense, it is not at all clear that the Abstracts are as yet self-supporting and it is fairly evident that future contributions will be necessary.

TABLE 1. INCOME

Income Source	1963-1964		1964-1965	
	Amount	Percentage	Amount	Percentage
Dues.....	\$16,112.76	22.9	\$17,299.35	24.4
Publication Program.....	44,188.21	62.7	43,749.75	61.7
Investments.....	8,549.00	12.1	9,244.67	13.1
Income for Investment.....	996.46	1.4	425.50	0.6
Reimbursement.....	620.17	0.9		
Miscellaneous.....	—	—	166.61	0.2
	<u>\$70,466.60</u>	<u>100.0</u>	<u>\$70,885.88</u>	<u>100.0</u>

TABLE 2. DISBURSEMENTS

Disbursement	1963-1964		1964-1965	
	Amount	Percentage	Amount	Percentage
Publication Program.....	\$46,870.66	82.3	\$48,559.61	79.7
Meeting Expense.....			2,458.66	4.0
Office Expense.....	5,923.97	10.4	5,397.36	8.9
Officers Honoraria.....	3,125.00	5.5	3,500.00	5.8
Contributions, etc.....	1,008.58	1.8	996.52	1.6
	<u>\$56,928.21</u>	<u>100.0</u>	<u>\$60,912.15</u>	<u>100.0</u>

Endowment Fund and Cash Contingency Fund. The book value of the Endowment Fund securities on August 1, 1965 was \$147,603.15 compared with \$142,152.60 on August 1, 1964. Of this amount, 6.8% is in bonds, 16.6% in preferred stock, and 76.6% in common stock. The market value, as of August 1, 1965, was \$227,583.00. Dividends and interest from the securities totaled \$8,019.98, well above the estimated figure of \$7,750 and the result of dividend increases in several holdings. From current holdings an income of \$8,150.00 is esti-

mated for 1965-1966. The percentage yields of each type of security, at both book and market values, are given in Table 3.

TABLE 3. SECURITIES

Class	Book Value	Yield	Market Value	Yield
Bonds	\$ 10,043.75	4.98%	\$ 9,625.00	5.19%
Preferred Stock	24,569.40	5.01	26,938.00	4.57
Common Stock	112,990.00	5.56	191,020.00	3.29
	<u>\$147,603.15</u>	<u>5.43</u>	<u>\$227,583.00</u>	<u>3.52</u>

Acknowledgments. The continuity of operation of the Treasurer's office depends on several individuals to whom I extend my sincere thanks, specifically, Robert Weishaupt and Walter Weishaupt, for assistance with back issue shipments; Rita Ehrmann, for her capable direction of the advertising in *The American Mineralogist*; Edward P. Henderson, Arthur Montgomery, and William T. Pecora, of the Financial Advisory Committee, for their judicious management of our investments; Herbert Allen of Merrill Lynch, custodian of our portfolio; Jos. Dinsmore Murphy, of Steadman, Leonard, Clammer and Flues, 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. My personal thanks also go to our members, subscribers, and business associates, all of whom have contributed toward a successful year.

Respectfully submitted,
MARJORIE HOOKER, *Treasurer*

REPORT OF THE AUDITING COMMITTEE

October 28, 1965

To the President of the Mineralogical Society of America:

On October 27, 1965, the Auditing Committee examined the accounts of the Treasurer of the Society and found them in excellent order for the fiscal year August 1, 1964 to July 31, 1965.

The Committee wishes to make two recommendations to the Council. First, since the funds currently on deposit in two savings and loan associations exceed by a sizable margin the amount covered by the Federal deposit insurance for such accounts, the Committee recommends that the Council accept the Treasurer's request to open a third such account.

Second, the Committee suggests that, in keeping with good business practice, the accounts in the Cash Contingency Fund require signatures of two of the four members of the Finance Committee for withdrawal of funds and that funds in the brokerage account, when transferred to the Society, should be paid directly into the Cash Contingency Fund by the brokerage firm.

The Treasurer continues to merit the appreciation of the Society for her devotion to its business affairs.

Respectfully submitted,
P. R. BRETT
CHARLES W. BURNHAM
JOAN R. CLARK, *Chairman*

REPORT OF THE EDITOR FOR 1965

PUBLICATION RESULTS

During 1965 *The American Mineralogist* contained a total of 2,150 pages, the most productive year of its history, and one which I believe, saw an additional increase in the quality of its presentations as well.

Most of this increase stems from the fact that *The American Mineralogist* appeared in 7, rather than in 6 numbers, the September–October number (No. 9–10) being split into a regular number (September, No. 9) and a special number (October, No. 10) dedicated to Professor Paul F. Kerr.

	1964	1965
Regular 6 numbers.	1802 pp.	1854 pp.
Kerr number.	—	296
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	1802 pp.	2150 pp.

The 1965 volume includes 117 major papers and 78 notes.

The following new minerals were described:

coalingite
 esperite (formerly calcium-larsenite)
 fresnoite
 getchellite
 hallimondite
 hollingworthite
 kitkaite
 krauskopfite
 macallisterite
 macdonaldite
 mawsonite
 mckelveyite
 moctezumite
 muirite
 nickeliferous magnesium hydroxide (not named)
 pabstite
 traskite
 verplanckite
 walstromite

MANUSCRIPT RECEIPTS

During 1965 the total *number* of manuscripts decreased, but the volume increased, owing to a much larger number of major articles and a decrease in "Notes"-type articles.

	<i>Major</i>	<i>Notes</i>	<i>Total</i>
1964.	152	92	244
1965.	170	69	239

MANUSCRIPT BACKLOG

For 1966 there were available:

	<i>Major MS</i>	<i>Notes MS</i>	<i>Total</i>
Accepted.....	46	14	60
In process of revision or review.....	47	14	61
Total.....	93	28	121

MANUSCRIPT EVALUATION

The rejection rate of manuscripts has increased appreciably:

	<i>Major</i>	<i>Notes</i>
1964.....	12	14
1965.....	23	32

This marked increase stems from two factors:

1. Council instructions of November, 1964 which have permitted the Editor greater discretion in rejecting
 - (a) Manuscripts dealing with minor mineral occurrences of purely local interest.
 - (b) Manuscripts dealing with chiefly "chemical" themes, *e.g.*, phases for which no mineralogical counterparts exist or analytical techniques.
2. Increased quality standards by the Associate Editors, other critics and the Editor.

PUBLICATION INTERVAL

The time period between the date "accepted for publication" and the publication month ranged from 2-9 months. One paper, whose "publication interval" is indicated as 14 months, was held up by request. The average "publication interval" for the first 4 numbers of Vol. 50 (1965) for major articles (62) was 5 months. The period between "receipt of manuscript" and publication date is, of course, longer but is not significant inasmuch as the authors' revision time is often lengthy.

PRINTING DELAY

Beginning with the middle of the year, delays in Banta's printing schedule were encountered owing to the complete overhaul of their printing system. Thus the May-June number was 2 months late and the July-August was 1+ month late. The September number was about a month and a half late; the November-December number appeared in late January (about one month late). It is expected that during 1966 the numbers will again appear at their regularly scheduled times. There was nothing that could be done to prevent this, and Banta has been both apologetic and also grateful for our understanding. We attempted to let the membership know about the delay via a postcard dated late in June; unfortunately, because of the same problem, it was not printed and distributed till late July. In this hair-pulling interval I was tempted to prepare a second postcard to the membership telling them that a postcard explaining the **Journal's** delay had itself been delayed!

KERR NUMBER

The Kerr number (October, 1965) was our first *Festschrift* number in 10 years and proved eminently satisfactory and successful, largely owing to prodigious labors by Ralph J. Holmes and William J. Croft. All scientific manuscripts included in this number received

the same critical and editorial reviews accorded manuscripts accepted for regular numbers of *The American Mineralogist*.

CRITICS

Again, as always, *The American Mineralogist* would be unable to continue save for the unselfish efforts of the Associate Editors and the special critics. My special thanks go to them all:

Associate Editors: Donald L. Graf, Alfred J. Frueh, Jr., Ivan H. Milne, William T. Holser, Daniel E. Appleman, Stephen E. Clabaugh.

Critics:

Hans H. Adler	A. A. Giardini	Richard S. Mitchell
L. L. Ames, Jr.	Joseph Goldstein	Mary Mrose
Fred Barker	Ralph E. Grim	Adolf Pabst
Julian D. Barksdale	Eugene B. Gross	Donald R. Peacor
Thomas F. Bates	Richard L. Hay	Carl Roach
F. D. Bloss	Harry H. Hess	Abraham Rosenzweig
Francis R. Boyd, Jr.	Anna Hietanen-Makela	Charles A. Salotti
W. F. Bradley	C. S. Hurlbut, Jr.	J. F. Schairer
Irving A. Breger	M. L. Jackson	Frank Senftle
Louis I. Briggs	Walter D. Keller	Dale R. Simpson
Gordon Burley	William C. Kelly	Brian Skinner
Felix Chayes	George T. Kerr	Joseph V. Smith
Paul L. Cloke	J. A. Kohn	Hugo Steinfink
A. J. Cohen	James R. Kramer	T. W. Stern
D. S. Coombs	Leonard H. Larsen	David B. Stewart
Reynolds M. Denning	A. A. Levinson	Hugo Strunz
J. D. H. Donnay	W. C. Luth	Francis J. Turner
James W. Early	R. J. P. Lyon	O. F. Tuttle
R. C. Emmons	John B. Lyons	Joseph A. Vance
Hans P. Eugster	W. S. Mackenzie	Charles E. Weaver
Michael Fleischer	Joseph A. Mandarino	Horace Hinchell
Clifford Frondel	Brian H. Mason	David R. Wones
Judith Frondel		Tibor Zoltai

I am also particularly grateful to Michael Fleischer for his unflagging efforts in accumulating information for "New Mineral Names" and for his services in having reviewed descriptions of new minerals by the Commission on New Minerals and Mineral Names of the I.M.A. Mrs. Rita Ehrmann receives my special thanks for her continued able assumption of the chores of our advertising program.

TERMINATION OF EDITORSHIP

By December, 1966 I will have served the Society as Editor for six years, including one year as co-editor with L. S. Ramsdell. This is long enough, both from my own viewpoint and from that of our Society, whose affairs will continue to flourish as a direct function of the number of our members and fellows who are actively participating in them. Accordingly in November, 1965 I asked the Council of the Mineralogical Society of America not to consider me for reappointment after 1966.

Respectfully submitted,
E. WM. HEINRICH, *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
 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

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
 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

PRESIDENTS (*cont.*)

1960 Joseph Murdoch
 1961 E. F. Osborn
 1962 Ian Campbell
 1963 C. S. Hurlbut, Jr.
 1964 Leonard G. Berry
 1965 George T. Faust

VICE-PRESIDENTS (*cont.*)

1960 E. F. Osborn
 1961 Ian Campbell
 1962 C. S. Hurlbut, Jr.
 1963 Leonard G. Berry
 1964 George T. Faust
 1965 Brian H. Mason

SECRETARIES

1920-1922 Herbert P. Whitlock
 1923-1933 Frank R. Van Horn
 1933-1934 Albert P. 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
 1961- 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.
 1964 Francis J. Turner, Hatten S. Yoder, Jr., W. F. Bradley, Howard T. Evans, Jr., Harold D. James, Joseph V. Smith
 1965 W. F. Bradley, Howard T. Evans, Jr., Harold D. James, Joseph V. Smith, William T. Pecora, William S. Fyfe, Walter D. Keller

Annual Meeting Places

- | | |
|-------------------------------|--------------------------------|
| 1920 Chicago, Illinois. | 1943 No meeting held |
| 1921 Amherst, Massachusetts | 1944 No meeting held |
| 1922 Ann Arbor, Michigan | 1945 Pittsburgh, Pennsylvania |
| 1923 Washington, D. C. | 1946 Chicago, Illinois |
| 1924 Ithaca, New York | 1947 Ottawa, Canada |
| 1925 New Haven, Connecticut | 1948 New York, New York |
| 1926 Madison, Wisconsin | 1949 El Paso, Texas |
| 1927 Cleveland, Ohio | 1950 Washington, D. C. |
| 1928 New York, New York | 1951 Detroit, Michigan |
| 1929 Washington, D. C. | 1952 Boston, Massachusetts |
| 1930 Toronto, Canada | 1953 Toronto, Canada |
| 1931 Tulsa, Oklahoma | 1954 Los Angeles, California |
| 1932 Cambridge, Massachusetts | 1955 New Orleans, Louisiana |
| 1933 Chicago, Illinois | 1956 Minneapolis, Minnesota |
| 1934 Rochester, New York | 1957 Atlantic City, New Jersey |
| 1935 New York, New York | 1958 St. Louis, Missouri |
| 1936 Cincinnati, Ohio | 1959 Pittsburgh, Pennsylvania |
| 1937 Washington, D. C. | 1960 Denver, Colorado |
| 1938 New York, New York | 1961 Cincinnati, Ohio |
| 1939 Minneapolis, Minnesota | 1962 Houston, Texas |
| 1940 Austin, Texas | 1963 New York, New York |
| 1941 Boston, Massachusetts | 1964 Miami Beach, Florida |
| 1942 No meeting held | 1965 Kansas City, Missouri |

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	1965 Adolf Pabst

Recipients of the Mineralogical Society of America Award

1951 Orville G. 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 Jullian R. Goldsmith	1962 Douglas S. Coombs
1956 George C. Kennedy	1963 Nobuo Morimoto
1957 Rustum Roy	1964 William S. Fyfe
	1965 Peter J. Wyllie

1965 ANNUAL MEETING AT KANSAS CITY, MISSOURI

The meetings of the following societies were held November 4-6, 1965

- The Geological Society of America—78th
- The Paleontological Society—57th
- The Mineralogical Society of America—46th
- Society of Economic Geologist—46th
- The Geochemical Society—10th