

PROCEEDINGS OF THE FIFTY-FIRST ANNUAL MEETING  
OF THE MINERALOGICAL SOCIETY OF AMERICA  
AT MILWAUKEE, WISCONSIN

ARNULF MUAN, *Secretary*

The fifty-first annual meeting of the Society was held on November 11-13, 1970 at the Sheraton-Schroeder Hotel and the Milwaukee Auditorium in Milwaukee, Wisconsin. The technical sessions were integrated as usual with those of the Geological Society of America and its affiliated societies.

The retiring President, William F. Bradley, addressed the Society on the morning of November 12th on the subject "The Low-Key Crystallography."

The annual business meeting of the Society was held on the morning of November 12, at which time reports were presented by the Secretary, Treasurer, and Editor of the American Mineralogist.

ACTIONS OF THE 1970 COUNCIL

The second and last meeting of the 1970 Council was held on Tuesday, November 10. The principal actions taken by the Council are summarized below:

*Awards*

The Council voted to award the Roebling Medal for 1971 to J. D. H. Donnay, and the Mineralogical Society of America Award for 1971 to R. A. Berner.

*Nominations for Officers for 1972*

The following slate of elective officers for 1972, submitted by the Nominating Committee for Officers, was approved and will appear on the ballot submitted to the membership in September 1971.

*President*—Hatten S. Yoder  
*Vice President*—Joseph V. Smith  
*Secretary*—Joan R. Clark  
*Treasurer*—(not on 1972 ballot)  
*Councilors* (1972-1974)—(2 of 4 to be elected)

George W. Brindley  
Philip M. Orville  
Edwin Roedder  
Tibor Zoltai

*Fellowship*

The Council approved the entire list of 13 members recommended for Fellowship by the Nominating Committee for Fellows. Their names will appear on the ballot submitted for approval by the Fellows in September 1971.

*"Mineralogy Letters"*

An *ad hoc* committee consisting of Subrata Ghose and Charles Prewitt has been exploring possibilities of initiating a new letter-type journal in the field of mineralogy under the auspices of The Mineralogical Society of America. The Council felt that a real need for such a publication has not been demonstrated, and that the Society could not endorse such an effort at the present time.

*Amendment to the Constitution and By-Laws*

The Constitutional amendments to provide equal rights and privileges for both members and fellows, as proposed by the Chayes committee, and partially rephrased with his concurrence, were accepted by the Council without editorial changes. They will appear on the ballots for the Society next Fall, but are available in the meantime on request from the Secretary. Petitions for the amendments with the required number of signatures had been received and circulated to Council members two months prior to the Council meeting, as is required by the present Constitution.

## ACTIONS OF THE 1971 COUNCIL

The first meeting of the 1971 Council was held on Friday afternoon, November 13.

*Budget*

The budget presented by the Treasurer for 1971 was approved. The Executive Committee was instructed to review the financial situation of the Society periodically during the coming year, in consultation with the Financial Advisory Committee, and take appropriate action if serious financial difficulties arise.

*Stock Transactions*

The Treasurer was authorized to carry out business transactions (including buying and selling stocks, borrowing money) on behalf of the Society, until the time of the Annual Meeting in November, 1971.

*Editor of The American Mineralogist*

William T. Holser was unanimously reappointed for another term.

*Committee and Other Appointive Officers*

A list of appointive officers, prepared by the President in consultation with the Secretary and the Committee on Committees, was presented to the Council and with minor changes was unanimously approved. This list will be published in each issue of *The American Mineralogist*.

*"Mineralogy Letters"*

The Council confirmed the previous Council's conclusion that a real need for a new "Mineralogy Letters" publication has not been demonstrated.

*Meeting for 1971*

The regular sessions of the annual meeting of The Mineralogical Society of America will be held in conjunction with that of the Geological Society of America and affiliated societies in Washington, D. C., November 1-3, 1970.

## REPORT OF THE SECRETARY FOR 1970

*Election of Officers*

The ballots were counted on October 28, 1970 by a Tellers' Committee consisting of Anne Irvin, Sharon Marshall, and Arnulf Muan. A total of 967 officer ballots had been received by that date and 201 Fellowship ballots. The officers elected to serve in 1971 are:

*President*-Julian R. Goldsmith  
*Vice President*-Hatten S. Yoder  
*Treasurer*-Alvin Van Valkenburg  
*Secretary*-Elected in alternate years (not in 1970)

The two Councilors elected for the three-year terms 1971-1973 are:

Sturges W. Bailey  
George Switzer

*Election of Fellows*

In accordance with the provisions of the Constitution, 20 members were elected to Fellowship in the Society:

Lorenzo F. Aristarain	Hugh John Greenwood
Fred Barker	Jun Ito
Peter Bayliss	Cornelis Klein, Jr.
Edgar Marshall Bollin	Donald C. Noble
Iris Yvonne Parnell Borg	Anthony Robert Philpotts
Roger G. Burns	Edward Haviland Poindexter
Louis John Cabri	Paul Hartman Reitan
George A. Desborough	Peter Ludwig Roeder
Kurt von Gehlen	Thomas Peter Rooney
Seymour Geller	John Frederick George Wilkinson

One candidate failed to receive the 90% favorable vote necessary for election.

*Society Membership*

Membership figures for the Society in 1970 are compared below with those for the past three years:

	1967	1968	1969	1970
Honorary Fellows.....	2	2	11	9
Fellows.....	484	560	462	509
Members.....	2,144	2,161	1,833	2,161
	<hr/>	<hr/>	<hr/>	<hr/>
	2,630	2,723	2,306	2,679

There is some arbitrariness attached to these figures, inasmuch as enforcement of payment of dues as a requirement for membership listing has varied over the years.

*Re-organization of Secretary's Office*

Without any doubt the most significant developments in the secretarial office of the Mineralogical Society of America during the past year were the transfer of the "routine work" and the secretary's records to the AGI Building in Washington, D. C., and the appointment of a manager (Mrs. Anne Irvin) for the combined treasurer-secretary's functions.

*Fellows Lost to the Society by Death*

Helen Blair Barlett	Vladi Marmo
Dorothy Carroll	P. R. J. Naidu
Louis W. Currier	Joseph James Runner
Margaret D. Foster	John F. Schairer
Lewis C. Graton	Duncan Stewart
M. S. Krishnan	George F. Walker
F. Machatschki	

Respectfully submitted,  
ARNULF MUAN, *Secretary*

REPORT OF THE TREASURER FOR 1970

The fiscal year ending July 31, 1970 closed with a deficit of \$6,248 of which \$3,349 was a net loss on selling some our investments. It should be noted that Society's financial records are maintained on a cash basis; therefore, premiums paid at the time of acquisition of the bonds were not amortized over the years during which the securities were held but had to be absorbed at the time of sale as a loss. The investments were sold to help pay for the publication of Special Paper Number Two. A second item that contributed to our deficit was a loss in revenue from page charges that were not honored after the authors agreed to the charges. Monies for these delinquent page charges are now being received after some prodding and these will be reflected in the next fiscal report. There appears to be a tendency during these times of tight money to delay in paying bills and this places hardships on the Treasurer's office. Again the Treasurer strongly urges that page charges be honored on time. It should be noted here that the page charge in our Journal—\$20.00 per page—is one of the lowest in any comparable journal. A nonrecurring expense that added to the deficit was our 50th Anniversary held at Atlantic City. About \$1400 was used above that which we received from registration and banquet levies. The money was used to help defray expenses such as travel and subsistence of our honored guests, special items concerned with the banquet, etc.

The Treasurer wishes to express his appreciation to all those who assisted him in the past year's activities which include those in the Finance Advisory Committee, Management Committee, Auditing Committee, 50th Anniversary Committee and the various staff members of AGI. Special thanks go to Mrs. Anne Irvin who is our manager at AGI for her patience with keeping all the details of the Treasurer's and the Secretary's offices separated.

MINERALOGICAL SOCIETY OF AMERICA

BALANCE SHEET  
July 31, 1970

ASSETS

Cash:

Operating Account.....		\$ 2,113.41
Contingency—		
Riggs.....	\$ 140.42	
National Permanent Savings & Loan.....	4,121.32	
Columbia Federal Savings & Loan.....	4,871.04	9,132.78
Merrill Lynch Custodial Account.....		3,813.87
Investments.....		173,639.69
Total Assets.....		\$188,699.75

LIABILITIES

Mineralogical Abstracts Subscriptions.....	\$ 654.24
IMA World Directory Sales.....	4.50
Total Liabilities.....	658.74

## CAPITAL ACCOUNTS

General & Administrative Account.....	20,891.04
Publications (total).....	(10,303.59)
Endowment Fund.....	177,453.56
Total Capital.....	188,041.01
TOTAL Liabilities and Capital.....	\$188,699.75

## MINERALOGICAL SOCIETY OF AMERICA

## CONSOLIDATED STATEMENT OF INCOME &amp; EXPENSES

For the Fiscal Year Ended July 31, 1970

<i>Income</i>	<i>Budget</i>	<i>Actual Income &amp; Expenses</i>
Dues.....	\$ 26,900.00	\$ 28,356.97
Publications.....	46,970.00	51,733.63
Reprints.....	14,500.00	12,669.70
Royalties.....	1,200.00	1,201.94
Advertising.....	3,800.00	2,818.50
Page Charges.....	13,000.00	6,961.80
Mailing List.....	500.00	298.40
Investments.....	11,000.00	10,783.07
50th Anniversary Celebration.....	4,100.00	4,098.75
Contributions.....	400.00	212.98
Other.....		850.64
Total Income.....	122,370.00	119,986.38
<i>Expenses</i>		
Salaries & Wages.....	15,800.00	14,794.07
FICA & Benefits.....	750.00	564.68
Personal Assistance.....	3,000.00	4,048.50
Honoraria.....	1,800.00	1,800.00
Materials & Supplies.....	1,800.00	1,355.88
Insurance.....	20.00	45.00
Rent & Storage.....	2,750.00	2,735.99
Telephone & Telegraph.....	1,000.00	833.65
Postage & Freight.....	5,100.00	5,003.51
Outside Mailing Service.....	50.00	34.00
Printing & Duplicating.....	83,650.00	79,973.01
Books & Periodicals.....	25.00	26.70
Advertising & Promotion.....	150.00	143.45
Dues & Contributions.....	650.00	1,422.00
Entertainment.....	200.00	129.03
Travel & Subsistence.....	100.00	258.89
Awards.....	500.00	215.00

Mailing List Printouts.....	200.00	97.10
50th Anniversary Celebration.....	5,000.00	5,518.71
Miscellaneous.....	50.00	75.36
Overhead.....	4,016.00	3,726.44
Advance.....		84.79
	<hr/>	<hr/>
Total Expenses.....	126,611.00	122,885.76
	<hr/>	<hr/>
Net Income (Deficit).....	\$ (4,241.00)	(2,899.38)
	<hr/>	<hr/>
Loss on Investments (net).....		(3,349.52)
		<hr/>
		\$ (6,248.90)

MINERALOGICAL SOCIETY OF AMERICA

ENDOWMENT FUND

July 31, 1970

<i>No. of Shares</i>	<i>7/31/70</i>		<i>Market Value*</i>	<i>Income 1969-70</i>
	<i>Value</i>	<i>Cost</i>		
17 American Telephone and Telegraph Debentures.....	102 $\frac{3}{4}$	\$ 1,719.16	\$ 1,746.75	
5M New York Central 5.....				125.00
		<hr/>	<hr/>	<hr/>
Total Bonds.....		1,719.16	1,746.75	125.00
		<hr/>	<hr/>	<hr/>
<i>Preferred Stocks</i>				
150 F.M.C. 2.25 cum.....	32 $\frac{1}{4}$	4,792.90	4,837.50	337.52
60 Jones Laughlin.....	44	4,987.50	2,640.00	300.00
100 Sun Oil 2.25.....	34 $\frac{3}{8}$	2,342.63	3,462.50	225.00
20 Virginia Electric Power 4.80.....	60	2,122.95	1,200.00	96.00
50 Virginia Electric Power 5.00.....	64 $\frac{1}{2}$	5,942.50	3,150.00	250.00
		<hr/>	<hr/>	<hr/>
Total Preferred Stocks		20,188.48	15,290.00	1,208.52
		<hr/>	<hr/>	<hr/>
<i>Common Stocks</i>				
570 American Telephone & Telegraph.....	46 $\frac{7}{8}$	14,880.93	26,291.25	1,453.50
534 Buckeye International.....	6 $\frac{7}{8}$	3,832.21	3,671.25	160.20
450 Chase Manhattan Bank.....	47 $\frac{1}{4}$	12,682.91	21,262.50	810.00
150 Chesapeake and Ohio.....	43 $\frac{1}{2}$	8,643.57	6,525.00	600.00
400 Columbia Gas System.....	30 $\frac{3}{4}$	8,057.97	12,300.00	656.00
250 Columbus & South. Ohio.....	23 $\frac{5}{8}$	3,815.81	5,906.25	418.00
150 Continental Can.....	66 $\frac{7}{8}$	4,051.56	10,031.25	330.00
300 Continental Oil.....	23 $\frac{3}{8}$	11,061.75	7,012.50	450.00
150 Denison Mines.....	25 $\frac{1}{2}$	3,096.00	3,825.00	176.89

\* Market value on August 1, 1970.

220 Detroit Edison.....	17 $\frac{5}{8}$	5,720.10	3,877.50	253.75
303 Emhart Corp.....	26 $\frac{3}{4}$	4,774.75	8,105.25	363.60
100 General Motors.....	68	9,681.35	6,800.00	405.00
150 General Portland Cement.....	23	2,934.69	3,450.00	120.00
508 Greyhound Corp.....	14 $\frac{3}{8}$	2,300.00	7,302.50	508.00
100 Indianapolis Power and Light.....	23 $\frac{1}{8}$	3,084.25	2,312.50	150.00
100 Interpace Corp.....	21 $\frac{1}{4}$	2,619.44	2,125.00	100.00
200 Kimberly Clark Corp.....	32 $\frac{1}{4}$	5,401.50	6,450.00	225.00
300 Kroger Co.....	29	3,245.35	8,700.00	390.00
200 Lear Siegler Inc.....	11 $\frac{5}{8}$	1,496.75	2,325.00	100.00
533 Marriott Corp.....	24 $\frac{1}{4}$	2,474.04	12,925.25	
101 Occidental Petroleum Corp.....	16 $\frac{1}{8}$	4,353.06	1,628.63	100.00
220 PPG Industries.....	25 $\frac{1}{4}$	6,312.83	5,555.00	308.00
100 Phelps Dodge.....	42 $\frac{3}{4}$	1,975.00	4,287.50	205.00
200 Southern Natural Gas.....	47	3,600.00	9,400.00	280.00
300 Tenneco, Inc.....	19 $\frac{1}{8}$	8,612.07	5,737.50	393.00
175 Union Carbide.....	37 $\frac{7}{8}$	10,719.41	6,628.12	350.00
100 Wisconsin Power and Light.....	20 $\frac{1}{2}$	2,304.75	2,050.00	132.00
Total Common Stocks.....		151,732.05	196,484.75	9,437.94
Combined Totals.....		173,639.69	213,521.50	10,771.46
Treasury Bills.....				143.96
Cash with broker 7/31/70.....			3,813.87	
Interest on Income.....			217,335.37	11.61
				10,927.03

## FINANCIAL COMMITTEE OF THE REPORT FOR 1970

The Mineralogical Society of America ended its financial year on July 31, 1970 with a portfolio valued at \$217,335.37 which represents a decline of 15% in Capital Assets. Since the purpose of the endowment is income, the Financial Advisory Committee is pleased to report the income was \$10,927.03, an increase of 4.8% over the former year.

The table following shows the income from invested funds each year since 1970 and the cost and year end market value of the portfolio.

<i>Year</i>	<i>Income</i>	<i>Cost</i>	<i>Market Value</i>
1960	\$ 7,214.61	\$123,036.84	\$151,285.00
1961	7,568.12	130,515.74	174,783.00
1962	7,887.25	132,915.64	166,466.00
1963	7,456.27	136,280.54	189,037.00
1964	7,587.14	142,152.60	222,717.00
1965	8,019.98	147,603.15	227,583.00
1966	8,636.72	155,574.33	218,430.00
1967	9,327.15	160,183.86	254,008.00
1968	9,584.52	160,196.99	281,437.00
1969	10,392.75	182,973.38	255,747.00
1970	10,927.03	173,639.69	217,335.00

## ERRATA

a) The published report of the Society's income for common stocks, 1967-68, in the March-April 1969 issue of *The American Mineralogist*, page 663, was incorrectly totaled. The income from this part of the portfolio was \$7,901.00, not \$8,383.00 as published. The published figure for the total income for the year was correct.

b) In the published report for 1968-69, the income from the endowment was \$10,378.89, not \$13,378.89. The total endowment income was \$10,392.75, not \$13,392.75. This appears on page 627 of the March-April 1970 issue of *The American Mineralogist*.

EDWARD P. HENDERSON, *Chairman*

THOMAS W. STERN

CHARLES L. CHRIST

## REPORT OF THE AUDITING COMMITTEE FOR 1970

On October 6, 1970, members of the Auditing Committee examined the accounts of the Society, including the contents of the safety deposit box at the Federal Office of the Riggs National Bank. We have found them to be in order for the fiscal year, August 1, 1969-July 31, 1970, and truly represented by the accounts of the Treasurer. The present system, under which many of the administrative functions of the Treasurer's office are being performed by the American Geological Institute, appears to be functioning well at present after the transition period of the last two years.

The previous treasurer, Miss Marjorie Hooker, is to be commended for her continuing voluntary care of reserve stocks of back issues of *The American Mineralogist*, with all duties involved, to the financial benefit of the Society.

Respectfully submitted,

BEVAN M. FRENCH, *Chairman*

PAUL DESAUTELS

LARRY FINGER

## REPORT OF THE EDITOR FOR 1970

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

Publication operations in 1970 continued at the same pace as 1969, despite the relocation of the editorial office, and the extra load of Special Paper No. 3.

A report by Peter Fenner and Joel Lloyd (*Geotimes*, 15, no. 6, 14-17 (1970)) lists the serials of most importance to geologists, based on citations in the 1969 *Bibliography and Index of Geology*. Ninety four serials account for half of the citations. Of the fifteen of these that specialize within one or more of the fields covered by *The American Mineralogist*, we tie with *Geokhimiya* for the largest number of citations. This is consistent with another set of statistics published by A. O. Woodford (*J. Geol. Educ.* 17, 87-90 (1969)), which counts citations in seven geological journals published in the USA in 1967. He places *The American Mineralogist* as the first in its field, and third behind only the *Geological Society of American Bulletin* and the *Bulletin of the American Association of Petroleum Geologists* among all journals cited. These statistics, despite their obvious limitations, indicate the important position of our journal in both its specialized field and in geological science in general.

The new policy of accepting review papers, set by the council in 1969, was circulated to the Associate Editors and announced in the journal, and one proposal has been received.

## PUBLICATIONS RESULTS

Volume 55 for 1970 totals 2193 pages, including 139 major articles and 57 notes. This exceeds slightly the previous high for 1968. Even so we end the year with a backlog of about half an issue. Details of the publication flow are shown in the following two tables,



with the intervals as defined in the report for 1969 (*Amer. Mineral.* **55**, 631 (1970)). It should be explained further that the interval labelled *editing*, the time from median acceptance date until the manuscript issue is mailed to the printer, includes not only time of preparation for the printer and a built-in delay of 30 days equal to half the publication interval, but also any delay due to backlog.

Overall, the year has not seen any improvement in our publication schedules. The new office arrangements at Eugene will allow closer control over the editorial operation, which, I hope, will lead to an improvement in processing manuscripts.

## PUBLISHING OPERATIONS IN 1970

	<i>Major</i>	<i>Notes</i>	<i>Total</i>
<i>Status as of January 1, 1970</i>			
In press ( <b>54</b> , nos. 11-12, <b>55</b> , nos. 1-4) . . . . .	52	38	90
Accepted manuscripts . . . . .	6	7	13
Manuscripts with editor . . . . .			17
Manuscripts with referee . . . . .			35
Manuscripts with author . . . . .			30
			<hr/>
Total manuscripts on hand . . . . .			95
<i>Operations, January 1 to December 31, 1970</i>			
Published ( <b>54</b> , nos. 11-12, <b>55</b> , nos. 1-10) . . . . .	132	62	194
Sent to press ( <b>55</b> , nos. 5-12; <b>56</b> , nos. 1-2) . . . . .	124	45	169
Manuscripts received . . . . .			269
Manuscripts accepted . . . . .			200
Manuscripts rejected . . . . .			62
<i>Status as of December 31, 1970</i>			
In press ( <b>55</b> , nos. 11-12; <b>56</b> , nos. 1-2) . . . . .	48	20	68
Accepted manuscripts . . . . .	41	21	62
Manuscripts with editor . . . . .			3
Manuscripts with referee . . . . .			1
Manuscripts with author . . . . .			38
			<hr/>
Total manuscripts on hand . . . . .			134

## ELAPSED TIME FOR PUBLICATION PROCESS

<i>Interval</i>	<i>1969</i>	<i>1970</i>
Acceptance medians . . . . .	89	89
Editing . . . . .	33	57
Composition . . . . .	49	57
Correction . . . . .	27	30
Printing . . . . .	52	49
Total . . . . .	248	282

## SPECIAL PAPER NO. 3

Mainly due to the efforts of Benjamin A. Morgan and his Associate Editors, the three *Fiftieth Anniversary Symposia* were produced as the third in our series of *Special Papers*. Working on a tight schedule, authors, editors, and printers had the volume on the stands

by August. The timely appearance of this volume is a credit to the Society and to those who organized and participated in its celebration.

#### NEW EDITORIAL OFFICE

As a consequence of my new duties as Professor of Geology at the University of Oregon, the Editorial Office was moved to Eugene on September 1, 1970. For operations of *The American Mineralogist*, the University has provided Room 128 in the Volcanology Building, just down the hall from my own office and laboratory. Mrs. Helen Hollyer works half time as Editorial Assistant, and Mrs. Kathelen Davis half time as Secretary. The arrangement is considerably more convenient than it was in La Habra, where the editorial operation was a couple of miles from my office. The new situation should allow closer control over the operations, and at the same time free me of some details.

#### PLANS

A detailed study of the proposed larger format for the journal, authorized by the Council at its meeting in 1969, has not made any progress. The Banta Company had promised to present some proposals and costs, but they never came through, and at about the time that I should have been pushing them I was getting wound up to move.

#### ACKNOWLEDGEMENTS

This is an appropriate time to acknowledge the great contribution to the operation of this office that has been made over the last four years by Chevron Oil Field Research Company. Liberal management policies permitted delegation of a significant fraction of my working time to the job of Editor. They looked upon this as one way in which the Company could keep in the mainstream of scientific work, in the same way that they encouraged participation (not just attendance) in scientific meetings, and publication of research results.

The Associate Editors, Gabrielle Donnay, Richard C. Erd, Robert E. Newnham, W. Gary Ernst, Hugo Steinfink, and E-an Zen have expeditiously circulated manuscripts to referees, and in many cases done detailed criticism themselves. The following list of referees includes some that were inadvertently omitted in the list for 1969. Michael Fleischer and his IMA Committee provided abstracts of New Mineral Names.

S. C. Abrahams	Keith Chave	Howard T. Evans, Jr.
Arden L. Albee	Felix Chayes	L. Fanfani
S. Amelinckx	Charles L. Christ	J. H. Fang
Daniel Appleman	Alan H. Clark	G. H. Faye
Randolph Barton, Jr.	Joan R. Clark	D. J. Fisher
T. F. Bates	Alvin Cohen	J. R. Fisher
Peter Bell	R. A. Condrate	Michael Fleischer
Myron Best	D. W. J. Cruickshank	Robert O. Fournier
Rolland Blake	G. K. Czamanske	Clifford Frondel
Charles Blount	Dirk De Waard	Judith Frondel
Arthur Boettcher	George A. Desborough	L. H. Fuchs
J. Borene	Frank Dickson	Hans Füchtbauer
G. W. Brindley	F. C. Dodge	W. S. Fyfe
Theodore Bunche	W. A. Dollase	L. R. Gardner
Charles W. Burnham	J. D. H. Donnay	Subrata Ghose
Roger G. Burns	J. I. Drever	G. V. Gibbs
Ian S. E. Carmichael	E. D. Edues	H. Görz
M. H. Carr	Hans P. Eugster	G. Gottardi

D. L. Graf  
 W. T. Granquist  
 Raymon T. Greer  
 Arthur J. Gude, III  
 R. A. Gulbrandsen  
 Stefan S. Hafner  
 W. C. Hamilton  
 Jeffrey S. Hanor  
 R. Ian Harker  
 Richard L. Hay  
 E. W. Heinrich  
 D. D. Hogarth  
 John Hower  
 J. S. Huebner  
 Jun Ito  
 M. L. Jackson  
 R. H. Jahns  
 K. H. Jost  
 Barclay Kamb  
 W. D. Keller  
 G. C. Kennedy  
 O. J. Kleppa  
 Taro Kihara  
 Bruce Knox  
 Jack A. Kohn  
 James Kramer  
 G. Kullerud  
 Ikuo Kushiro  
 D. M. Laduron  
 Jaro Lexa  
 D. H. Lindsley  
 William Lodding  
 Alden Loomis  
 Edward F. X. Lyden

F. T. Mackenzie  
 Emil Makovicky  
 R. F. Martin  
 James L. McAtee, Jr.  
 A. R. McBirney  
 Duncan McConnell  
 Charles Milton  
 D. J. Milton  
 Paul Moore  
 Benjamin A. Morgan  
 Mary Mrose  
 Olaf Muller  
 K. J. Murata  
 E. H. Nickel  
 Gary Novak  
 J. A. O'Keefe  
 Keiichi Omori  
 Adolf Pabst  
 Donald Palmer  
 James J. Papike  
 Donald R. Peacor  
 Alvin Perloff  
 Guy Perrault  
 William Petruk  
 E. R. Phillips  
 E. H. Poindexter  
 C. T. Precoitt  
 Robert W. Rex  
 Paul Ribbe  
 C. I. Rich  
 Peter Robinson  
 Phil E. Rosenberg  
 Malcolm Ross  
 Richard A. Rowland

J. Schlocker  
 C. J. Schneer  
 H. P. Schwarcz  
 J. Douglas Scott  
 Robert B. Scott  
 S. D. Scott  
 Kurt Servos  
 David Shelley  
 Richard A. Sheppard  
 Paul Shlichta  
 Brian J. Skinner  
 Joseph Smith  
 Lloyd Staples  
 Doug Stoesser  
 E. F. Stumpfl  
 L. A. Taylor  
 Robert Tilling  
 George Tunell  
 Frank J. Turner  
 David R. Waldbaum  
 Bert E. Warren  
 Kenneth D. Watson  
 G. R. Webber  
 Robert A. Weeks  
 J. L. White  
 William B. White  
 Ray Wilcox  
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