

Proceedings of the Fifty-Seventh Annual Meeting of the Mineralogical Society of America in Denver, Colorado

LARRY W. FINGER, SECRETARY

The fifty-seventh annual meeting of the Society was held on November 8–11, 1976, at the Denver Convention Complex and Denver Hilton Hotel. There were six technical sessions in petrology, three in mineralogy, and a symposium, "Magma Genesis in the Mantle," arranged by John Carman. The sessions were integrated with those of the Geological Society of America and its other affiliated societies.

The retiring President, E-an Zen, addressed the Society on November 9 on the subject, "The Phase-Equilibrium Calorimeter, the Petrogenetic Grid, and a Tyranny of Numbers."¹ The annual luncheon of the Society followed President Zen's address. The Roebling Medal was awarded to Professor Carl W. Correns, who was introduced by Gustaf Arrhenius. The Mineralogical Society of America Award was given to Friedrich A. Seifert, who was introduced by Hatten S. Yoder, Jr.

At the annual business meeting, reports were presented by the Secretary, the Treasurer, and the Editor. The results of the election, the subject of the next Short Course, and other Council actions were announced.

1976 Council actions

The second meeting of the 1976 Council was held on April 11, 1976, and the third meeting was held on November 7, 1976. The principal actions of the 1976 Council are summarized.

Awards

The Council voted to award the Roebling Medal for 1977 to Raymond Castaing. The Mineralogical Society of America Award for 1977 will be given to J. G. Liou.

Nominations of officers for 1978

The following slate of elective officers for 1978, based on recommendations from the Nominating Committee for Officers (Daniel E. Appelman, Chairman) was chosen by the Council and will appear on the ballot in 1977.

<i>President:</i>	Peter J. Wyllie, University of Chicago
<i>Vice President:</i>	David R. Wones, U. S. Geological Survey
<i>Secretary:</i>	Larry W. Finger, Geophysical Laboratory
<i>Treasurer:</i>	Not on the 1978 ballot.
<i>Councillors:</i>	(1978–80)—Two to be elected Arden Albee, California Institute of Technology Bernard Evans, University of Washington James Hayes, Harvard University Douglas Rumble, Geophysical Laboratory

Fellowship

The Council elected 13 members to Fellowship, based on the recommendations of the Nominating Committee for Fellows (Jack Redden, Chairman). The new fellows are:

Giles O. Allard	William C. Kelly
Takaharu Araki	Malcolm E. McCallum
Marc W. Bodine	Arthur S. Radtke
Owen P. Bricker	George I. Smith
Alan A. Colville	Jeffrey Warner
James R. Craig	William S. Wise
David A. Hewitt	

Husband-wife membership category

The Council voted to create a new membership category for married couples. Each individual will have full membership rights; however, there will be a single journal subscription for the couple. An amendment to the Constitution which will complete action on this change will appear on the 1977 ballot.

Publications

The 1976 Publications Committee (Benjamin A. Morgan, Chairman) sent letters to approximately 100 petrologists soliciting comments on the possible role of MSA in encouraging more petrologic publications in *The American Mineralogist*. Following recommenda-

¹ *Am. Mineral.*, 62, 189–204.

tions of the Publication and Financial Advisory (S. W. Bailey, Chairman) Committees, the Council voted to authorize the Editor to publish up to 1400 pages per year (up from 1144) with the increment devoted to increasing the number of pages of petrology papers. The Council also voted to accept an arrangement proposed by Oxford University Press, publishers of the *Journal of Petrology*. In this arrangement, the members of MSA can subscribe to the *Journal of Petrology* at a rate equal to approximately 2/3 of the normal rate. In addition, MSA will be able to appoint one member to the Honorary Advisory Board of the Journal.

Short course

The Council voted to endorse the proposal for a Short Course on Zeolites to be held in conjunction with the Seattle meeting. F. A. Mumpton is the Short Course Convenor for 1977.

Actions of the 1977 Council

The first meeting of the 1977 Council was held on November 11, 1976.

The Council approved the budgets for the Society and *Mineralogical Abstracts*, and reappointed Brian Mason as Editor, Ann Garlington as Managing Editor, and A. F. Spilhaus, Jr. as Executive Secretary.

Committees

The Council voted to change all standing committees, except the Financial Advisory Committee, to a rotating basis where no individual would serve more than one year as chairman. The Financial Advisory Committee is to be on a two-year basis. The report of the Committee on Committees (F. D. Bloss, Chairman) was approved with changes.

Meteoritical Society

The Council voted to appoint a formal representative to the Meteoritical Society.

Kraus Fund

The Council voted to award the Kraus Research Grant during 1977.

Spring meeting of the Council

The 1977 Council will hold its second meeting in conjunction with the spring AGU meeting.

Report of the Secretary for 1976

Results of the election

The results of the 1976 election are as follows:

<i>President:</i>	F. D. Bloss (1977)
<i>Vice President:</i>	Peter J. Wyllie (1977)
<i>Treasurer:</i>	Malcolm Ross (1977-78)
<i>Councillors:</i>	G. V. Gibbs (1977-79)
	Paul B. Moore (1977-79)

Membership statistics

As of October 1, 1976, there were 2628 members, divided as follows: Members, 1537; Student Members, 507; Fellows, 575; and Honorary Fellows, 9.

Necrology

Members that have died since the last report are listed below:

Harold M. Bannerman
 Karen L. Brunson
 Richard E. Fuller
 Marjorie Hooker
 Dwight M. Lemmon
 Henry Adam Martin
 J. L. Martin-Vivaldi
 Jon N. Weber

Remarks

During the past year, special surveys on membership questions and publication options were conducted. The membership survey, organized by Philip M. Orville, was influential in the creation of the new membership category. The publication survey led to the changes in our journal and to the arrangement with the *Journal of Petrology*. The Council feels that these efforts have greatly improved the Society. We thank all who contributed time and effort to these undertakings.

LARRY W. FINGER
Secretary

Report of the Treasurer for 1976

This report covers the period January 1, 1976, through December 31, 1976, denoted FY 1976. The accounting was done on the accrual basis, and the figures are therefore comparable with those of FY 1973-1975. The figures have been audited by Touche Ross, and Company, and in their opinion, present an accurate accounting of the Society's financial position. A copy of the full audit report is on file at the Society's business office, at 1909 K Street, N. W., Washington, D. C. 20006, and is available for inspection by any member.

The financial data for FY 1976 are presented in

Table 1 (Balance Sheet) and Table 2 (Statement of Income and Expense, FY 1976). Table 1 is in the same format as that presented last year; Table 2 is changed from the previous year so as to give a more complete description of the Society's financial transactions, and is in the form utilized by the Society's business office.

The Mineralogical Society of America continues to be in a sound financial position. Our new investment manager, Mr. William G. Campbell of New York City, who has been with us a year now, has done an exceptional job of restructuring our portfolio of stocks and securities. As given in detail in the report of the financial advisory committee for 1976, the market value of the entire portfolio increased from \$320,977 to \$401,590 in 1976. I believe we can begin 1977 with a very optimistic outlook as far as our finances are concerned.

The revolving fund which is designed to be non-profit showed a small decrease of \$1,618 due to preparation of the decennial index and reprinting of *Short Course Notes I*. The sale of these in 1977 should more than make up for this loss. The activities included within the revolving fund have certainly enhanced the

Table 1. Mineralogical Society of America balance sheet

	Dec. 31, 1975	Dec. 31, 1976
Current Assets:		
Cash - Checking Accounts	\$ 51,751	\$ 67,685
Cash - Savings Accounts	11,942	10,527
Investment Fund	384,509	359,810
Investments - S. Cen. Bell Bond	4,977	4,977
Investments - Goodyear Stock	10,950	10,950
Receivables - Customers	10,681	15,915
Prepaid Expense	1,966	1,298
Total Assets	\$476,776	\$471,162
Current Liabilities:		
Accounts Payable - Trade	\$ 17,095	\$ 21,595
Mineralogical Abstracts	3,911	3,795
Other Payables	232	2,151
Prepaid Dues	27,302	26,780
Prepaid Subscriptions	44,587	51,550
Total Liabilities	\$ 93,127	\$105,871
Net Worth:		
General Operating Fund	\$ 44,113	\$ 54,278
Revolving Fund	6,192	4,574
Endowment Fund	312,842	284,723
Scholarship Fund	1,174	1,384
Member Assistance Fund	5,782	6,194
Kraus Crystallographic Fund	13,546	14,138
Total Equity Funds	\$383,649	\$365,291
Total Liabilities and Capital	\$476,776	\$471,162

Table 2. Mineralogical Society of America statement of income and expense, FY 1976

	Dec. 31, 1975	Dec. 31, 1976
EXPENSE:		
Editorial Office:		
Honorarium	\$ 2,000	\$ 2,000
Salaries	14,691	12,289
Expenses	3,761	3,822
Travel	1,332	674
Annual Index Preparation	1,000	--
Publication and Distribution:		
Composition & Set-up	51,036	54,382
Printing & Mailing	22,662	25,118
Author Alterations	5,933	6,748
Advertising	268	70
Reprints	6,596	6,759
Salaries	3,925	7,845
Computer	.991	1,472
Back Issue Handling	922	1,428
Services & Supplies	924	1,198
Promotion	--	--
Total Direct Costs	\$116,041	\$123,805
Indirect Costs	25,587	24,315
Total Expense	\$141,628	\$148,120
MEMBER SUBSCRIPTION COSTS	\$ 42,504	\$ 32,078
REVOLVING FUND		
INCOME:		
Special Papers, I, II, III	\$ 3,647	\$ 3,288
Guidebooks	33	51
Hi-temp. Reprint	93	144
Short Course Notes (Sale)	7,780	10,172
Short Course Registr.	5,136	7,480
Decennial Index	--	530
Investment Income	944	-406
Total Income	\$ 17,632	\$ 21,259
EXPENSE:		
Short Course - Admin.	\$ 5,587	\$ 6,193
Short Course Notes (Print)	3,035	4,161
Decennial Index	1,299	7,592
Storage & Mailing	1,228	1,176
Promotion	--	--
Total Direct Costs	\$ 11,049	\$ 19,122
Indirect Costs	2,436	3,755
Total Expense	\$ 13,485	\$ 22,877
ENDOWMENT FUND		
INCOME:		
Contributions	\$ 750	\$ 185
New Life Memberships	800	1,200
Investment Portfolio	65,709	-20,220
Total Income	\$ 67,259	\$-18,835
EXPENSE:		
½ Div./Int. Income transferred	\$ 10,029	\$ 5,184
Life Member Dues transferred	4,040	4,100
Total Expense	\$ 14,069	\$ 9,284

Table 2. Continued

	Dec. 31, 1975	Dec. 31, 1976
<u>SOCIETY OPERATIONS</u>		
<u>INCOME:</u>		
Dues - Fellows & Members	\$ 36,028	\$ 35,981
Students	2,704	2,480
Life	4,040	4,100
Prior Years	292	52
Investment Fund Income	11,390	-3,995
Transfer from Endow. (½ D & I)	10,029	5,184
Savings & Short Term Investment	769	992
Mailing List Sales	499	1,018
Miscellaneous Income	1,648	1,621
Total Income	\$ 67,399	\$ 47,433
<u>EXPENSE:</u>		
Indirect Administrative Costs:		
Salaries	\$ 15,343	\$ 14,747
Telephone	397	319
Postage	2,364	2,571
Computer	1,887	2,510
Mailing Lists	--	390
Services & Supplies	4,361	2,032
Professional Services	850	900
Travel & Official	1,137	1,108
Council Meetings	2,206	2,945
Miscellaneous Expense	1,672	1,403
Sub-total	\$ 30,217	\$ 28,925
Less: Allocation to other*	28,023	28,071
Balance Allocated to Society	\$ 2,194	\$ 854
Membership Services:		
Scientific Meetings	\$ 582	\$ --
Dues & Contributions**	3,150	3,660
Awards (incl. Life Member gifts)	1,386	677
Public Relations	1,597	--
Membership Directory	3,254	--
Total Costs	\$ 12,163	\$ 5,191
Member Subscription Costs	42,504	32,078
Total Expense	\$ 54,667	\$ 37,269

AM. MINERAL. OPERATIONS

	Dec. 31, 1975	Dec. 31, 1976
<u>INCOME:</u>		
Subscriptions	\$ 68,381	\$ 67,851
Page Charges	17,226	24,895
Reprints	6,466	9,593
Author Alteration Charges	862	1,324
Back Issues	2,929	3,608
Royalties	326	819
Advertising	2,827	3,341
Miscellaneous	107	4,611
Total Income	\$ 99,124	\$116,042

Table 2. Continued

	Dec. 31, 1975	Dec. 31, 1976
<u>SCHOLARSHIP FUND</u>		
<u>INCOME:</u>		
Contributions	\$ 954	\$ 283
Investment Portfolio	108	-78
Total Income	\$ 1,062	\$ 210
<u>EXPENSE:</u>		
Grants-in-Aid	\$ 1,000	--
<u>MEMBERSHIP ASSISTANCE FUND</u>		
<u>INCOME:</u>		
Bond Interest	\$ 413	\$ 412
<u>KRAUS CRYST. FUND</u>		
<u>INCOME:</u>		
Goodyear Div.	\$ 440	\$ 440
Interest	121	152
Total Income	\$ 561	\$ 592

Society's reputation and also appear to be profit-making.

In conclusion I wish to acknowledge that most of the work represented by this report is due to the good efforts of our former treasurer, George W. Fisher, and to our professional business staff at MSA, headquarters.

MALCOLM ROSS
Treasurer

Report of the Financial Advisory Committee for 1976

1976 was a good year for the MSA investment portfolio. The portfolio was restructured by our new investment manager, William G. Campbell, in order to take a more conservative approach to the market and to consolidate our recent rapid gains. Thirty-six percent of the total cost of the present portfolio is in bonds yielding an average of 7.2 percent. The remainder is broadly diversified in common stocks that are expected to have better-than-market appreciation. These stocks were selected to have a high potential discounted rate of return (18-25%), as judged by their present price/earnings ratio and their retention rate of earnings. The market value of the entire portfolio

*Portion of indirect costs allocated to operation of Am. Mineral. and the revolving fund.

**Primarily MSA dues to AGI.

increased 25.1 percent during 1976 from \$320,977 to \$401,590 (Table 1), and the value of the common stock portion appreciated approximately 34 percent. For comparison purposes, the Dow Jones Industrial Average increased 17.9 percent during 1976. Total dividends plus interest received during 1976 amounted to \$16,527.18 (Table 2). A capital loss of \$37,641.60 was sustained as a result of the portfolio restructuring (Table 3).

Respectfully submitted,
S. W. BAILEY, Chairman
G. W. FISHER, Treasurer
B. A. MORGAN, 3rd
E. F. OSBORN
D. RUMBLE, 3rd
P. TOULMIN, 3rd

Table 1. MSA investment portfolio

Portfolio	Cost	Market Value 12/31/76
SENIOR SECURITIES		
15K Commercial Credit Co., 8.4%	\$ 15,000.00	\$ 15,600.00
35K Georgia Power, 1st Mtg., 7.625%	25,550.00	31,150.00
200 Ingersoll Rand \$2.35 cv. pfd.	10,406.80	10,050.00
15K Intl. Bank Recon. Dev., 8.15%	15,022.50	15,712.50
30K Transcont. Gas Pipe L., 4.875%	22,452.00	25,800.00
10K U.S. Steel, sub. deb., 5.75%	10,000.00	9,687.50
30K U. S. Treasury Notes, 8.0%	30,004.69	32,362.50
	<u>\$128,435.99</u>	<u>\$140,362.50</u>
COMMON STOCKS		
200 American Standard	\$ 5,799.35	\$ 5,700.00
200 American Tel. & Tel.	11,086.46	12,700.00
200 Amsted Industries	6,864.87	10,325.00
100 CBS Inc.	5,752.50	5,937.50
200 Chessie Systems	8,106.00	8,250.00
100 Colt Industries	4,711.75	5,450.00
200 Continental Oil Co.	7,127.50	7,500.00
300 Diamond Shamrock	9,643.70	10,275.00
200 Dresser Industries	6,837.01	8,400.00
100 Ford Motor Co.	6,031.51	6,150.00
600 Great Atlantic & Pacific Tea	7,780.00	8,550.00
300 Houston Natural Gas	8,709.23	10,312.50
45 International Bus. Machines	10,283.75	12,560.63
100 International Paper	5,918.23	6,887.50
300 Koppers	6,947.80	7,762.50
400 Levi Strauss & Co.	8,333.89	10,900.00
309 MCA	11,375.25	12,553.13
200 McDermott, J. Ray	8,939.00	9,275.00
400 Melville Corp.	8,251.49	10,700.00
200 Northwest Industries	6,867.68	9,200.00
150 Owens-Illinois	8,784.03	8,437.50
300 Pittston	10,287.33	10,687.50
200 Potlatch Corp.	11,395.73	14,200.00
400 Ryan Homes	8,266.73	7,950.00
100 Union Carbide	6,293.23	6,187.50
200 U. S. Steel	9,463.48	9,950.00
300 United Technologies Corp.	7,892.99	11,662.50
400 Woolworth, F. W.	9,798.18	10,300.00
	<u>\$227,548.67</u>	<u>\$258,763.76</u>
Cash Balance	2,464.07	2,464.07
TOTALS	<u>\$358,448.73</u>	<u>\$401,590.33</u>

Table 2. Dividends and interest in 1976

SENIOR SECURITIES			
150	Commercial Credit Co., 8.4%	\$ 574.00	
50K	Fedders sub. deb. cv., 5%	569.45	
35K	Georgia Power, 1st Mtg., 7.625%	2,668.76	
200	Ingersoll Rand, \$2.35 cv. pfd.	352.50	
15K	Intl. Bank Recon. Dev., 8.15%	519.56	
300	Lykes Youngstown, 7.5%	435.00	
30K	Transcont. Gas Pipe Line, 4.875%	1,462.50	
30K	U.S. Treasury Notes, 8.0%	<u>1,186.81</u>	\$ 7,768.58
COMMON STOCKS			
200	American Standard	65.00	
200	American Tel. & Tel.	570.00	
300	Amsted Industries	500.00	
200	Chessie System	421.00	
200	Chemetron	210.00	
200	Continental Oil	180.00	
150	Diamond Shamrock	262.50	
300	Dresser Industries	193.75	
8,400	Electronic Data Systems	900.00	
2,000	General Tire & Rubber	393.85	
300	Houston Natural Gas	135.00	
55	Intl. Business Machines	522.50	
100	International Paper	200.00	
100	Koppers	222.50	
400	Levi Strauss	130.00	
300	MCA	225.00	
200	McDermott, J. Ray	100.00	
400	Melville Corp.	255.00	
200	Northwest Industries	312.50	
150	Owens-Illinois	211.50	
300	Pittston	180.00	
200	Potlatch Corp.	309.00	
300	Ryan Homes	100.00	
200	Safeway Stores	200.00	
400	Sambos Restaurants	32.00	
2,800	Transco Co.	560.00	
100	Union Carbide	250.00	
200	U.S. Steel	372.50	
400	United Technologies	445.00	
400	Woolworth, F. W.	<u>300.00</u>	\$ 8,758.60
TOTAL			<u>\$16,527.18</u>

Table 3. Capital gains or losses in 1976

	Cost	Sale	Gain or (Loss)
50K Fedders sub. deb., 5%	\$19,547.50	\$20,487.50	\$ 940.00
300 Lykes Youngstown, 7.5%	19,132.50	20,664.00	1,531.50
100 Amsted Industries	3,431.73	4,818.53	1,386.80
200 Chemetron Corp.	8,005.26	6,309.28	(1,695.98)
100 Dresser Industries	3,417.49	4,284.10	866.61
8,400 Electronic Data Systems	148,762.93	117,632.76	(31,130.17)
2,000 General Tire & Rubber	29,434.16	40,827.22	11,393.06
40 Intl. Bus. Machines	9,141.11	11,150.54	2,009.43
4,600 Interpool	65,521.34	47,635.99	(17,885.35)
200 National Semiconductor	9,826.00	5,428.31	(4,397.69)
200 Safeway Stores	9,225.87	8,129.22	(1,096.65)
400 Sambos Restaurants	6,832.02	6,327.02	(505.00)
1,000 Sealed Air Corp.	8,239.51	7,817.80	(421.71)
2,800 Transco Co.	25,990.85	26,520.55	529.70
100 United Technologies	2,631.00	3,464.85	833.85
TOTALS	<u>\$369,139.27</u>	<u>\$331,497.67</u>	<u>(\$37,641.60)</u>

Report of the Editor (October 1, 1975–September 30, 1976)

During the past year the editorial office has been transferred from Blacksburg to Washington and the editorial team of Don Bloss–Mary Holliman replaced by Brian Mason–Ann Garlington. Handling of manu-

scripts was transferred to Washington in mid-October 1975; the January-February 1976 issue (which went to press October 13, 1975) was handled in its entirety by Dr. Bloss and Ms. Holliman, and the succeeding issues have been the responsibility of the Washington office.

Manuscripts received during the twelve months ending September 30, 1976, totalled 240, a considerable increase over the 197 received during the preceding twelve months; this increase is partly but not entirely accounted for by the 29 manuscripts deriving from the Geothermometry-Geobarometry conference. Some 80 manuscripts were in various stages of processing when the editorship was transferred.

Council authorized a maximum of 1144 pages for *The American Mineralogist*, Volume 61, 1976; the actual number of pages will be approximately 1260. The overrun is accounted for by Smith and Steele, "Lunar mineralogy," 59 pages, paid for by a special NASA grant (to be published in the November-December issue), and by additional pages authorized for the July-August issue to accommodate all the manuscripts submitted from the Geothermometry-Geobarometry conference. Table 1 summarizes the operations of *The American Mineralogist* for the year October 1, 1975-September 30, 1976.

The Editor expresses his appreciation to the Board of Associate Editors, whose efforts throughout the year have been essential to the efficiency and integrity

Table 1. *The American Mineralogist*. Summary of operations, October 1, 1975-September 30, 1976

Volume	No.	Major Articles	# of Pages	Notes	# of Pages	Total	# of Pages
<u>Published</u>							
60	9-10	20	170	8	25	28	195
60	11-12	20	167	6	13	26	180
61	1-2	20	165	5	18	25	183
61	3-4	16	129	6	20	22	149
61	5-6	17	137	4	10	21	147
61	7-8	29	268	-	-	29	268
Totals		122	1036	29	86	151	1122
<u>In Press</u>							
61	9-10	22	180	13	46	35	226
61	11-12	20	~248	4	~9	24	~257
Manuscripts accepted, ready for press					25		
Manuscripts accepted, being processed					13		
Manuscripts under review					99		
Total manuscripts on hand					137		
Manuscripts rejected					43		
Manuscripts withdrawn					15		

of the journal. Noted in particular are retiring Associate Editors Arthur Boettcher, Charles W. Burnham, William D. Johns, and Priestley Toulmin, III. Dr. Michael Fleischer edits the material for "New Mineral Names." Those who have kindly reviewed manuscripts for the journal are listed below.

BRIAN MASON
Editor

Reviewers 1976

Rudolf Allmann	Eugene Cameron	Joseph J. Finney	Rod Hill
Daniel E. Appleman	Maryellen Cameron	Michael Fleet	L. S. Hollister
S. W. Bailey	Alden B. Carpenter	Michael Fleischer	Arthur Hounslow
P. B. Barton	Robert H. Carpenter	R. J. Floran	J. S. Huebner
William A. Bassett	Robert W. Charles	R. L. Folk	C. S. Hurlbut
Werner H. Baur	Joseph V. Chernosky	E. F. Foord	Jun Ito
A. E. Bence	C. L. Christ	R. O. Fournier	William D. Johns
Richard Birnie	John M. Christie	Carl Francis	S. Karup-Møller
Arthur Boettcher	Joan R. Clark	Clifford Frondel	Paul F. Kerr
F. Donald Bloss	James R. Craig	Robert F. Fudali	R. James Kirkpatrick
J. R. Boles	B. H. W. S. de Jong	Subrata Ghose	Jeri Knight
Iris Y. Borg	G. A. Desborough	G. V. Gibbs	Bruce E. Knox
Robin Brett	Wayne A. Dollase	Don Goldman	Bill Laughlin
Kenneth J. Brock	Gabrielle Donnay	John Grover	Gerhard Lehmann
Gordon E. Brown	J. D. H. Donnay	Stephen Guggenheim	B. F. Leonard
I. D. Brown	Eric Dowty	John Gurney	D. H. Lindsley
Vagn Buchwald	Pete J. Dunn	Necip Guven	J. G. Liou
B. J. Burley	R. F. Egerton	John Hass	P. W. Lipman
Charles W. Burnham	Howard T. Evans	Robert Hazen	Robert W. Luce
Roger G. Burns	George Faust	H. C. Helgeson	R. Lumes
Peter Buseck	Philip M. Fenn	Paul C. Hess	J. A. Mandarino
Crispin Calvo	L. W. Finger	David Hewitt	R. F. Martin

Greg McCarthy
J. W. McCauley
Duncan McConnell
Edward Meagher
H. O. A. Meyer
Paul B. Moore
Nobuo Morimoto
Frederick A. Mumpton
W. P. Nash
Kurt Nassau
Alexandra Navrotsky
D. C. Noble
Gordon L. Nord, Jr.
E. W. Nuffield
Yoshikazu Ohasi
Adolf Pabst
George Parks

D. R. Peacor
J. E. N. Pike
A. J. Piwinski
Robert W. Potter II
Dean Presnall
Edwin L. Prien, Sr.
M. Prinz
V. Rajamani
R. W. Rex
Paul Ribbe
R. A. Robie
Peter Robinson
Ed Roedder
Malcolm Ross
George R. Rossman
Douglas Rumble III
M. J. Rutherford

Motoaki Sato
Friedrich A. Seifert
F. Sellshop
H. R. Shaw
A. K. Sinha
Deane K. Smith
J. V. Smith
J. R. Smyth
J. A. Speer
Hugo Steinfink
David B. Steward
S. E. Swanson
Mark P. Taylor
Warren Thomas
Alan Thompson
James B. Thompson, Jr.
Jack Tossell

Priestley Toulmin III
Kenneth M. Towe
G. C. Ulmer
David Vaughan
Rosemary J. Vidale
G. A. Waychunas
Charles E. Weaver
William B. White
Ray Wilcox
S. A. Williams
William S. Wise
Mike Wood
B. J. Wuensch
Peter Wyllie
Tibor Zoltai