

Proceedings of the Sixty-fifth Annual Meeting of the Mineralogical Society of America in Reno, Nevada

HENRY O. A. MEYER, SECRETARY

The sixty-fifth annual meeting of the Society was held on November 5 to November 8, 1984 in Reno, Nevada. The abstracts were organized into 15 technical sessions: five in igneous petrology, three in experimental petrology, three in metamorphic petrology, two in mineralogy and two in volcanology. In addition the Society sponsored two poster sessions, and one symposium: Diffusion in Mineral, Melt, and Glass Systems. Prior to the annual meeting a short course on Micas was organized by S. W. Bailey. All the sessions were integrated into the overall program of the Geological Society of America with the help of the Joint Technical Program Committee (T. L. Grove, MSA Representative).

The retiring president, Charles T. Prewitt, presented an address to the Society on "Crystal Chemistry: Past, Present and Future" on Tuesday, 6 November. M. Charles Gilbert gave a short address in memory of David R. Wones who died in an accident a few days prior to the meeting.

President Prewitt called the annual business meeting of the Society to order, and subsequently made some remarks. The Secretary, Treasurer, Editor of the American Mineralogist and Editor of the Reviews in Mineralogy reported to the membership on Society affairs.

1984 Council Actions

The second meeting of the 1984 Council was held in Cincinnati, Ohio on May 13, 1984 and the third meeting on November 4, 1984 in Reno, Nevada. Important actions taken were:

Awards

The Roebling Medal for 1985 will be awarded to Francis J. Turner, Professor Emeritus of the University of California at Berkeley.

The Mineralogical Society of America Award for 1985 will be presented to John M. Ferry of The Johns Hopkins University, Baltimore.

Twenty-two American Mineralogist Undergraduate Awards were issued in 1984. All the recipients received one year's free subscription to the American Mineralogist starting with the Jan.-Feb. issue, 1985.

Research Grant

The Mineralogy-Petrology research grant for 1985 was awarded to Carol R. Nabelek of the University of Missouri at Columbia.

The Kraus Crystallographic research grant will be awarded in 1986 and the competition for this grant will be held this year. Council has increased the monetary award for both of the above grants to \$3500.

Nominations for Officers for 1986

<i>President:</i>	Paul B. Barton, Jr., U.S. Geological Survey
<i>Vice-President:</i> (one to be selected)	Bernard W. Evans, University of Washington Paul H. Ribbe, Virginia Polytechnic Inst. & State Univ.
<i>Secretary:</i> (1986-1987)	Henry O. A. Meyer, Purdue University
<i>Treasurer:</i>	Not on 1986 ballot
<i>Councillors:</i> (1986-1988) (two to be selected)	Eric J. Essene, University of Michigan J. Stephen Huebner, U.S. Geological Survey Robert C. Newton, University of Chicago George R. Rossman, California Inst. of Technology

Fellowship

Council elected the following four members to Fellowship (Iris Y. Borg, Chair):

Joseph V. Chernosky, Jr.	Jerry R. Weidner
John S. Dickey, Jr.	Walter E. Trzcinski, Jr.

Council accepted the following recommendations of the Ad Hoc Committee on Fellowship (J. J. Papike, Chair):

1. The category of Fellows be retained
2. The number of Fellows not be set by some arbitrary percentage of the total membership
3. Criteria for election to Fellowship are:
 - a) Significant scientific contributions in any of the fields crystallography, mineralogy, and petrology.
 - b) A minimum of a bachelor's degree in geology or a related field.
 - c) At least 5 years of professional experience beyond the last academic degree.
 - d) Roebling Medallists and MSA Awardees automatically become Fellows.
 - e) Other attributes to be considered are:
 - i) Excellence in Earth Science education
 - ii) Outstanding service to the profession.

Financial Affairs and Management Concerns

The financial matters of the Society occupied a substantial amount of the Council's time but due to the excellent and unstinting guidance of the Treasurer, Odette B. James, Council were able to accept the recommendation that there be no change in membership dues in 1985. However, Institutional subscriptions to The American Mineralogist will increase slightly to \$110 (\$115 for non-US institutions), and page charges for authors will increase by \$5.00 to \$50.00 per page as of January 1985. Student dues will increase to

\$15.00 for 1985. These changes reflect the increasing costs of production of *The American Mineralogist*.

This was the final year for James as Treasurer of the Society. The President and Council thanked her warmly for the major time and effort she had put into the difficult task of ordering the Society's finances.

A new Executive Secretary, Barbara Minich, was appointed by Council in May to succeed F. Spilhaus. A separate office for the affairs of the Society has been organized within the AGU building and many of the members have already experienced the improvements instituted by Minich in the handling of the business affairs.

1985 Council Actions

The first meeting of the 1985 Council was held on 6 November, 1985 in Reno, Nevada.

The Council discussed a number of topics including: (1) the long term goals and priorities of the Society; (2) increasing the membership and fund raising; (3) the Congressional Fellow program of the AGI; (4) the present association of the business office of the Society within the AGU headquarters in Washington, D.C.

Council approved the budgets for the Society and *Mineralogical Abstracts*. The Society's budget for 1985 projects a deficit of about \$35,000, but some of this deficit is due to advance financial support to IMA 86 and may be recouped.

Michael J. Holdaway, Editor, and Linda Dungan, Managing Editor, of *The American Mineralogist*; Paul H. Ribbe, Editor—Reviews of Mineralogy were all reappointed for 1985 as well as Barbara Minich as Executive Secretary.

Council requested James L. Munoz to be the new Editor of *The American Mineralogist* to take effect in 1986.

Committee

The report of the Committee on Committees (Eugster, Chairman) was approved with modifications. The President, Eugster, appointed a Development Committee (Barton, Chairman) to study, examine and propose future aims and development of the Society. Views and suggestions pertinent to this charge would be welcomed by the Chairman of the committee.

HENRY O. A. MEYER
Secretary

Report of the Secretary for 1984

Results of the Election

The 1985 ballot resulted in the following elections:

<i>President:</i>	H. P. Eugster (1985)
<i>Vice-President:</i>	P. B. Barton, Jr. (1985)
<i>Treasurer:</i>	G. L. Nord, Jr. (1985–1986)
<i>Councillors:</i>	C. Klein (1985–1987)
	A. J. Naldrett (1985–1987)

The ballots (890) and the count were certified on August 30, 1984.

Two by-law changes regarding Fellowship matters were passed. The first change whereby members who became Fellows due to longevity could opt to receive *The American Mineralogist* at the prevailing student rate was passed; 773 for, 33 against. The second change that the contribution to become a Life Fellow would be 25 times the effective annual dues was passed; 742 for, 57 against.

Membership Statistics

As of December 1984, there were 2944 members distributed as follows: Members 1754 (+113); Student Members 619 (+49); Fellows 564 (–17); Honorary Fellows 7 (0). Numbers in parentheses indicate change from 1983.

Necrology

The deaths of the following Members and Fellows have been reported:

Horace R. Blank	Richard H. Jahns
Arthur M. Brant	V. Stephen Papezik
George W. Brindley	Frank W. Stead
Clifton S. Corbett	Robert W. Webb
Max H. Hey	David R. Wones

The Secretary would appreciate notification of the passing of any member.

Other

The appointment of a full-time Executive Secretary has resulted in major improvements in the running of the business office of the Society, and this will reflect in benefits to the members. Nevertheless, the Society consists of a dedicated, concerned and involved membership who by interaction and direction to Council keep the Society active and well. Your support and comments are welcomed and encouraged by Council.

HENRY O. A. MEYER

REPORT OF THE EDITOR FOR 1984

During the year ending September 30, 1984, 183 manuscripts were received by the journal. Previous years have been: 193 in 1980-81, 217 in 1981-82, and 193 in 1982-83. Table I summarizes the operations of the journal over the past year.

The backlog of manuscripts ready for publication grew to two issues during the late summer, but is now declining due to the smaller submission rate. Median publication time for the September-October issue was 15 months.

Council is taking action to further reduce the backlog during 1985. My hope is that in future years it will be possible to "fine tune" the rate of publication to keep publication times shorter. I estimate that manuscripts being submitted now will have a median publication time of 10 months to a year.

During 1985 a special issue on Alkaline Igneous Rocks will be published, and during 1986 a Dick Jahns Memorial Issue will be published. Gordon Brown and Rodney Ewing will serve as special Associate Editors. Manuscripts for the Jahns Issue will deal with the mineralogy or petrology of granitic pegmatites and related granitic rocks.

The thirteen associate editors have been most helpful in the work of handling manuscripts, reviews, and revisions. I also thank the many reviewers of manuscripts. Alexander Navrotsky, David Hewitt, and Gerald Czamanske com-

Table I. Summary of operations of *The American Mineralogist*

Volume	No.	Number of Articles	Number of Pages of Articles	Pages of Miscellaneous	Total Pages
Published					
68	9-10	17	179	13	192
68	11-12	25	203	21	224
69	1-2	24	209	15	224
69	3-4	24	183	9	192
69	5-6	18	152	40	192
69	7-8	20	199	15	224
69	9-10	22	166	10	176
In Press					
69	11-12	24	199	25	224
Manuscripts accepted			46		
Manuscripts under review			91		
Manuscripts rejected			35		
Manuscripts withdrawn			15		

plete their terms this year, and I am especially grateful for their service.

Linda Dungan continues to do a fine job as Managing Editor. The Council and President Prewitt have been very helpful and supportive. The Business Office, especially Barbara Minich, have helped to make it a very good year.

M. J. Holdaway

REFEREES 1984

T. Ahrens	J. Downs	M. Hibbard	P. B. Moore	F. Spear
R. D. Aines	E. Dowty	W. Hildreth	D. Moseley	J. A. Speer
J. M. Allen	R. C. Erd	J. Hogan	A. Muan	H. Steinfink
G. Amthauer	E. Essene	M. J. Holdaway	B. Mysen	E. Stolper
S. W. Bailey	H. Evans	L. S. Hollister	A. Navrotsky	J. Stout
P. B. Barton, Jr.	R. C. Ewing	G. L. Hovis	M. Newton	J. B. Thompson, Jr.
W. Bauer	J. M. Fang	S. J. Huebner	R. C. Newton	J. A. Tossell
W. Blackburn	L. W. Finger	N. Irvine	G. L. Nord, Jr.	J. Tullis
D. Bloss	M. E. Fleet	A. J. Irving	G. Novak	J. Valley
A. L. Boettcher	E. E. Foord	R. Jeanloz	M. O'Keefe	D. Veblen
S. R. Bohlen	R. L. Freed	D. M. Jenkins	P. O'Hare	J. Veizer
J. Boyd	C. Frondel	T. Kamph	H. O'Neill	B. Velde
E. R. Brooks	M. Ghiorsio	S. Kieffer	E. F. Overstreet	D. Virgo
G. Brown, Jr.	S. Ghose	J. Kirkpatrick	D. R. Peacor	D. Voight
M. S. Bukowinski	G. V. Gibbs	C. Klein	D. Perkins III	R. B. Von Dreele
J. Burdett	J. Gilbert	J. Konnert	P. Ribbe	D. Walker
R. Burns	D. S. Goldman	H. M. Lang	J. Rice	G. Waychunas
J. Cahn	J. Grambling	L. Levien	Peter Robinson	B. A. Wechsler
R. Caltow	H. Greenwood	R. C. Liebermann	P. Rosenberg	P. Weiblen
M. Cameron	D. Griffen	D. Lindsley	M. Ross	D. J. Weidner
C. Capobianco	T. L. Grove	E. C. Lingafelter	G. Rossman	A. F. Wells
M. F. Carman, Jr.	S. E. Haggerty	J. G. Liou	R. O. Sack	C. Werneke
F. Chayes	J. Hammerstrom	D. London	J. M. Sanchez	H. Westrich
J. Chernosky	G. E. Harlow	T. P. Loomis	V. Schomaker	E. F. Westrum, Jr.
I-Ming Chou	F. C. Hawthorne	G. MacPherson	S. K. Sharma	R. E. Wilcox
J. Clemens	R. M. Hazen	P. McMillan	C. Shearer	M. White
J. R. Craig	B. Hemingway	T. O. Mason	R. Sheppard	J. A. Woodhead
G. Czamanske	R. Hervig	S. M. Mattson	A. K. Sinka	H. S. Yoder, Jr.
H. Day	D. Hewitt	E. P. Meagher	J. V. Smith	E-an Zen
B. Doolan	C. Herzberg	W. Melson	J. R. Smyth	

LIST OF FORMER OFFICERS AND MEETING PLACES

Honorary Presidents

Edward S. Dana 1925–1935
 Charles Palache 1949–1954
 Edward H. Kraus 1955–1973
 Edgar T. Wherry 1974–1982

Presidents

1920 Edward H. Kraus	1937 Norman L. Bowen	1954 Sterling B. Hendricks	1971 Julian R. Goldsmith
1921 Charles Palache	1938 Ellis Thomson	1955 Harry H. Hess	1972 Hatten S. Yoder, Jr.
1922 Thomas L. Walker	1939 Max N. Short	1956 Clifford Frondel	1973 Joseph V. Smith
1923 Edgar T. Wherry	1940 William F. Foshag	1957 D. Jerome Fisher	1974 S. W. Bailey
1924 Henry S. Washington	1941 Frederick E. Wright	1958 George E. Goodspeed	1975 Arnulf Muan
1925 Arthur S. Eakle	1942 Arthur F. Buddington	1959 Ralph E. Grim	1976 E-an Zen
1926 Waldemar T. Schaller	1943 John F. Schairer	1960 Joseph Murdoch	1977 F. Donald Bloss
1927 Austin F. Rogers	1944 R. C. Emmons	1961 E. F. Osborn	1978 Peter J. Wyllie
1928 Esper S. Larsen	1945 Kenneth K. Landes	1962 Ian Campbell	1979 David R. Wones
1929 Arthur L. Parsons	1946 Paul F. Kerr	1963 C. S. Hurlbut, Jr.	1980 W. Gary Ernst
1930 Herbert E. Merwin	1947 M. J. Buerger	1964 Leonard G. Berry	1981 Gerald V. Gibbs
1931 Alexander H. Phillips	1948 M. A. Peacock	1965 George T. Faust	1982 Donald H. Lindsley
1932 Alexander N. Winchell	1949 John W. Gruner	1966 Brian H. Mason	1983 Edwin Roedder
1933 Herbert P. Whitlock	1950 George Tunell	1967 Felix Chayes	1984 Charles T. Prewitt
1934 John E. Wolff	1951 A. Pabst	1968 James B. Thompson	
1935 Clarence S. Ross	1952 Michael Fleischer	1969 Francis J. Turner	
1936 William S. Bayley	1953 J. D. H. Donnay	1970 William F. Bradley	

Vice Presidents

1920 Thomas L. Walker	1937 H. V. Ellsworth	1954 Harry H. Hess	1971 Hatten S. Yoder, Jr.
1921 Waldemar T. Schaller	1938 Kenneth K. Landes	1955 Clifford Frondel	1972 Joseph V. Smith
1922 Frederick A. Canfield	1939 Burnham S. Colburn	1956 D. Jerome Fisher	1973 S. W. Bailey
1923 George F. Kunz	1940 Ian Campbell	1957 George E. Goodspeed	1974 Arnulf Muan
1924 Washington A. Roebling	1941 William J. McCaughey	1958 Ralph E. Grim	1975 E-an Zen
1925 Herbert P. Whitlock	1942 Martin J. Buerger	1959 Joseph Murdoch	1976 F. Donald Bloss
1926 George Vaux, Jr.	1943 John W. Gruner	1960 E. F. Osborn	1977 Peter J. Wyllie
1927 George L. English	1944 Harry Berman	1961 Ian Campbell	1978 David R. Wones
1928 Lazard Cahn	1945 George Tunell	1962 C. S. Hurlbut, Jr.	1979 W. Gary Ernst
1929 Edward Wigglesworth	1946 S. B. Hendricks	1963 Leonard G. Berry	1980 Gerald V. Gibbs
1930 John E. Wolff	1947 Carl Tolman	1964 George T. Faust	1981 Donald H. Lindsley
1931 William F. Foshag	1948 A. Pabst	1965 Brian H. Mason	1982 Edwin Roedder
1932 Joseph L. Gillson	1949 J. D. H. Donnay	1966 Felix Chayes	1983 Charles T. Prewitt
1933 Frank B. Guild	1950 Ralph E. Grim	1967 James B. Thompson	1984 Hans. P. Eugster
1934 William A. Tarr	1951 Michael Fleischer	1968 Francis J. Turner	
1935 Ellis Thomson	1952 J. D. H. Donnay	1969 William F. Bradley	
1936 Harold L. Alling	1953 Sterling B. Hendricks	1970 Julian R. Goldsmith	

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.
 1959–1966 George Switzer
 1966–1969 Ralph J. Holmes
 1970–1971 Arnulf Muan
 1972–1975 Joan R. Clark
 1976–1979 Larry W. Finger
 1980–1983 M. Charles Gilbert
 1984— Henry O. A. Meyer

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
 1958–1968 Marjorie Hooker
 1969–1972 Alvin Van Valkenburg, Jr.
 1973–1974 Philip M. Bethke
 1975–1976 George W. Fisher
 1976–1980 Malcolm Ross
 1981–1984 Odette B. James

Editors

1920–1921 Edgar T. Wherry
 1922–1956 Walter F. Hunt
 1957–1961 Lewis S. Ramsdell
 1961–1966 E. Wm. Heinrich
 1966–1972 William T. Holser
 1972–1975 F. Donald Bloss
 1976–1980 Brian Mason
 1981— Michael J. Holdaway

Councilors

- 1920 Arthur S. Eakle, Frank R. Van Horn, Frederick E. Wright, Alexander H. Phillips.
- 1921 Frank R. Van Horn, Frederick E. Wright, Alexander H. Phillips, Austin F. Rogers
- 1922 Frederick 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, Jr.
- 1964 Francis J. Turner, Hatten S. Yoder, Jr., W. F. Bradley, Howard T. Evans, Jr., Harold L. James, Joseph V. Smith.
- 1965 W. F. Bradley, Howard T. Evans, Jr., Harold L. James, Joseph V. Smith, William T. Pecora, William S. Fyfe, Walter D. Keller.
- 1966 Harold L. James, Joseph V. Smith, William S. Fyfe, Walter D. Keller, Eugene N. Cameron, William S. MacKenzie.
- 1967 Eugene N. Cameron, Robert G. Coleman, William S. Fyfe, Donald L. Graf, Walter D. Keller, William S. MacKenzie.
- 1968 F. Donald Bloss, Eugene N. Cameron, Charles L. Christ, Robert G. Coleman, Donald L. Graf, William S. MacKenzie.
- 1969 Robert G. Coleman, Donald L. Graf, F. Donald Bloss, Charles L. Christ, W. Gary Ernst, Gunnar Kullerud.
- 1970 F. Donald Bloss, Charles L. Christ, W. Gary Ernst, Gunnar Kullerud, David R. Wones, Peter J. Wyllie.
- 1971 W. Gary Ernst, Gunnar Kullerud, David R. Wones, Peter J. Wyllie, Sturges W. Bailey, George Switzer.
- 1972 David R. Wones, Peter J. Wyllie, Sturges W. Bailey, George Switzer, George W. Brindley, Edwin Roedder.
- 1973 Donald H. Lindsley, George Switzer, George W. Brindley, Edwin Roedder, Daniel E. Appleman, David B. Stewart.
- 1974 George W. Brindley, Edwin Roedder, Daniel E. Appleman, David B. Stewart, Arthur L. Boettcher, Philip M. Orville.
- 1975 Daniel E. Appleman, David B. Stewart, Arthur L. Boettcher, Philip M. Orville, Iris Y. Borg, Barclay Kamb.
- 1976 Arthur L. Boettcher, Philip M. Orville, Iris Y. Borg, Barclay Kamb, Ian MacGregor, Charles T. Prewitt.
- 1977 Iris Y. Borg, Barclay Kamb, Ian MacGregor, Charles T. Prewitt, Gerald V. Gibbs, Paul B. Moore.
- 1978 Ian MacGregor, Charles T. Prewitt, Gerald V. Gibbs, Paul B. Moore, Arden Albee, Bernard W. Evans.
- 1979 Gerald V. Gibbs, Paul B. Moore, Arden L. Albee, Bernard W. Evans, Roger Burns, H. Catherine W. Skinner.

- 1980 Arden L. Albee, Bernard W. Evans, Roger Burns, H. Catherine W. Skinner, Paul Ribbe, Peter Robinson.
 1981 Roger Burns, H. Catherine W. Skinner, Paul Ribbe, Peter Robinson, Charles W. Burnham, P. R. Buseck.
 1982 Paul Ribbe, Peter Robinson, Charles Burnham, P. R. Buseck, James J. Papike, Donald R. Peacor.
 1983 Charles Burnham, P. R. Buseck, James J. Papike, Donald R. Peacor, James R. Craig, Alexandra Navrotsky.
 1984 James J. Papike, Donald R. Peacor, James R. Craig, Alexandra Navrotsky, Gordon E. Brown, Jr., Hugh P. Taylor, Jr.

Annual Meeting Places

- | | | |
|-------------------------------|--------------------------------|--------------------------------|
| 1920 Chicago, Illinois | 1942 No meeting held | 1964 Miami Beach, Florida |
| 1921 Amherst, Massachusetts | 1943 No meeting held | 1965 Kansas City, Missouri |
| 1922 Ann Arbor, Michigan | 1944 No meeting held | 1966 San Francisco, California |
| 1923 Washington, D.C. | 1945 Pittsburgh, Pennsylvania | 1967 New Orleans, Louisiana |
| 1924 Ithaca, New York | 1946 Chicago, Illinois | 1968 Mexico City, Mexico |
| 1925 New Haven, Connecticut | 1947 Ottawa, Canada | 1969 Atlantic City, New Jersey |
| 1926 Madison, Wisconsin | 1948 New York, New York | 1970 Milwaukee, Wisconsin |
| 1927 Cleveland, Ohio | 1949 El Paso, Texas | 1971 Washington, D.C. |
| 1928 New York, New York | 1950 Washington, D.C. | 1972 Minneapolis, Minnesota |
| 1929 Washington, D.C. | 1951 Detroit, Michigan | 1973 Dallas, Texas |
| 1930 Toronto, Canada | 1952 Boston, Massachusetts | 1974 Miami Beach, Florida |
| 1931 Tulsa, Oklahoma | 1953 Toronto, Canada | 1975 Salt Lake City, Utah |
| 1932 Cambridge, Massachusetts | 1954 Los Angeles, California | 1976 Denver, Colorado |
| 1933 Chicago, Illinois | 1955 New Orleans, Louisiana | 1977 Seattle, Washington |
| 1934 Rochester, New York | 1956 Minneapolis, Minnesota | 1978 Toronto, Canada |
| 1935 New York, New York | 1957 Atlantic City, New Jersey | 1979 San Diego, California |
| 1936 Cincinnati, Ohio | 1958 St. Louis, Missouri | 1980 Atlanta, Georgia |
| 1937 Washington, D.C. | 1959 Pittsburgh, Pennsylvania | 1981 Cincinnati, Ohio |
| 1938 New York, New York | 1960 Denver, Colorado | 1982 New Orleans, Louisiana |
| 1939 Minneapolis, Minnesota | 1961 Cincinnati, Ohio | 1983 Indianapolis, Indiana |
| 1940 Austin, Texas | 1962 Houston, Texas | 1984 Reno, Nevada |
| 1941 Boston, Massachusetts | 1963 New York, New York | |

Recipients of the Roebling Medal

- | | | |
|-----------------------------|--------------------------|-------------------------------------|
| 1937 Charles Palache | 1957 Walter F. Hunt | 1972 Elburt F. Osborn |
| 1938 Waldemar T. Schaller | 1958 Martin J. Buerger | 1973 George Tunell |
| 1940 Leonard James Spencer | 1959 Felix Machatschki | 1974 Ralph E. Grim |
| 1941 Esper S. Larsen, Jr. | 1960 Tom F. W. Barth | 1975 Michael Fleischer |
| 1945 Edward H. Kraus | 1961 Paul Ramdohr | 1975 O. Frank Tuttle |
| 1946 Clarence S. Ross | 1962 John W. Gruner | 1976 Carl W. Correns |
| 1947 Paul Niggli | 1963 John Frank Schairer | 1977 Raimond Castaing |
| 1948 William Lawrence Bragg | 1964 Clifford Frondel | 1978 James B. Thompson |
| 1949 Herbert E. Merwin | 1965 Adolf Pabst | 1979 W. H. Taylor |
| 1950 Norman L. Bowen | 1966 Max H. Hey | 1980 Dmitrii Sergeevich Korzhinskii |
| 1952 Frederick E. Wright | 1967 Linus Pauling | 1981 Robert M. Garrels |
| 1953 William F. Foshag | 1968 Tei-ichi Ito | 1982 Joseph V. Smith |
| 1954 Cecil Edgar Tilley | 1969 Fritz Laves | 1983 Hans P. Eugster |
| 1955 Alexander N. Winchell | 1970 George W. Brindley | 1984 Paul B. Barton, Jr. |
| 1956 Arthur F. Buddington | 1971 J. D. H. Donnay | |

Recipients of the Mineralogical Society of America Award

- | | | |
|---------------------------|--------------------------|---------------------------|
| 1951 Orville F. Tuttle | 1963 Nobuo Morimoto | 1975 Roger G. Burns |
| 1952 Frederick H. Stewart | 1964 William S. Fyfe | 1976 Friedrich A. Seifert |
| 1953 L. H. Ahrens | 1965 Peter J. Wyllie | 1977 J. G. Liou |
| 1954 Hatten S. Yoder, Jr. | 1966 David B. Stewart | 1978 J. Stephen Huebner |
| 1955 Julian R. Goldsmith | 1967 Alfred E. Ringwood | 1979 Ho-Kwang Mao |
| 1956 George C. Kennedy | 1968 Barclay Kamb | 1980 Susan Werner Kieffer |
| 1957 Rustum Roy | 1969 W. Gary Ernst | 1981 Alexandra Navrotsky |
| 1958 Charles E. Weaver | 1970 Bernard W. Evans | 1982 Robert M. Hazen |
| 1959 Harry F. W. Taylor | 1971 Robert A. Berner | 1983 David R. Veblen |
| 1960 Donald L. Graf | 1972 Arthur L. Boettcher | 1984 Bernard J. Wood |
| 1961 Joseph V. Smith | 1973 Paul Brian Moore | |
| 1962 Douglas S. Coombs | 1974 James J. Papike | |