

The Lattice

Electronic Mail for MSA Members

[The following item was contributed by Jonh B. Brady, Dept. of Geology, Smith College]

MSA is joining the electronic world by establishing an MSA List Server. Any member of MSA may "subscribe" (or "unsubscribe") to the MSA List Server by sending an e-mail message to

msa-request@smith.edu

A confirmation will be sent that the request has been received. Any subscriber may send an e-mail message to all other subscribers by using the following address:

msa@smith.edu

How the MSA List Server is used will depend on the membership. Society notices may be sent to the MSA List. Discussions of issues important to the Society may be conducted using the list. Ideas, questions, suggestions, discoveries, and more of interest to MSA members may be shared using the MSA List. Subscribe now and put your thoughts on the computer screens of MSA members around the world!

GSA/MSA 1994 Annual Meeting

The GSA/MSA 1994 Annual Meeting will be held October 24-27 in Seattle, Washington. The abstract deadline is July 6, 1994. Abstract forms may be obtained from the GSA Abstracts Coordinator (Telephone: 303-447-8850).

The preregistration deadline for the meeting is September 16. Information and registration and housing forms will be published in the June issue of *GSA Today*. Information and forms will also be available after June 1 from the GSA Registration Coordinator (Telephone: 303-447-2020 or 1-800-472-1988). Details of the Technical Program Schedule will be published in the September issue of *GSA Today*. The April issue of *GSA Today* contains the meeting announcement and a summary of symposia, theme topics, and field trips. The August issue of *The Lattice* will include meeting information and details of MSA activities.

MSA-sponsored symposia and theme sessions scheduled for the meeting include a diverse range of topics. In addition to the *MSA 75th Anniversary Symposium*, MSA is sponsoring symposia on *Advances in Silica Geochemistry* and *Frontiers of Mineral Surface Geochemistry: A Symposium in Memory of Andrew J. Gratz (1962-1993)*. Theme sessions include:

Speciation, Mobility, and Bioavailability of Metals in Mining Wastes; Boron: Mineralogy, Petrology, and Geochemistry in Earth's Crust; Advances in Silica Geochemistry; Phase Transformations: Mechanisms and Kinetics of Mineral Reactions; Magmatic Evolution of Circum-Pacific Arc Systems; and Advances in the Geology and Metallogeny of Gold Deposits, co-sponsored with the Society of Economic Geologists.

Announcement of the Fifth Goldschmidt Conference

The fifth annual Goldschmidt Conference will be held from May 24 to May 26, 1995 in the new Convention Center of the Pennsylvania State University at University Park, Pennsylvania. The meeting immediately precedes the Spring AGU meeting in Baltimore. For participants who want to attend both meetings, transportation from the Goldschmidt Conference to the AGU meeting is planned.

The Goldschmidt Conferences are arranged each year by the Geochemical Society. The meeting sites alternate between North America and Europe, where this year's meeting will be held in Edinburgh, Scotland, from August 28 to September 2.

Following the tradition of the Goldschmidt Conferences, the 1995 meeting will be co-sponsored by other professional societies with geochemical interests and be organized around a series of symposia that cover a broad range of geochemical subjects. Your suggestions for symposia that address topics on the active frontiers of geochemistry are most welcome.

If you would like to contribute your ideas to the meeting please contact the Technical Program Chair Mike McKibben, Telephone: 909-787-3444, Fax: 909-787-4324, E-mail: McKibben@UCRAC1.UCR.EDU, or one of the General Chairs, Hu Barnes or Peter Deines, Telephone: 814-865-7573, Fax: 814-863-2001, or E-mail: Barnes@GEOSC.PSU.EDU. For general conference information contact the conference coordinator, Suzanne St. Pierre, Telephone: 814-865-7557, Fax: 814-865-3749.



From the President

The ad hoc Committee on the *American Mineralogist*, chaired by Jim Papike, has been carefully considering suggestions for continued improvement in the journal's service to the scientific community. Some of the proposals make a lot of sense and are not particularly controversial, and these are likely to be implemented at the upcoming Council meeting in Baltimore. We are in agreement that a broader definition of mineralogical topics is appropriate, and that papers should be actively encouraged in potential growth areas. Space will be made through expansion, not by targeting for reduction or elimination any of our "traditional" subjects by reason of subject matter alone. Editors, Associate Editors and reviewers will continue to base their acceptance of manuscripts on an evaluation of their scientific significance and likely interest to subscribers. When this year's deliberation are completed, Editors Rich Reeder and Ted Labotka will provide an explicit statement of editorial policy.

This summer's ballot for Society officeholders will solicit your advice about possibly changing the name of our journal to *Journal of the Mineralogical Society of America*. Many MSA members believe that the current name fails to represent the entire range of subject matter that we wish to publish, and may be a deterrent to some potential authors who do not consider themselves to be mineralogists (e.g., materials scientists) but who nevertheless have publishable data that are relevant to minerals. From the birth of MSA up until 1988, the proposed new title was in fact used on the cover as a subtitle to *The American Mineralogist*. This is purely an advisory ballot - Council simply wishes to learn if the change would be a popular one.

At the time of writing, 11 individuals and companies have responded to our invitation to support MSA by becoming Benefactors, with donations ranging from \$200 to \$1000. Their names are to be listed on the back cover of *American Mineralogist*, and representatives will be invited to our annual luncheon. We hope that the Benefactor Program will not only provide valuable support for some of our

outreach efforts, but also foster long-term contacts between members and companies supplying the needs of mineralogists, or in some cases employing them.

In the context of outreach, I would like to thank this year's MSA Lecturers George Rossman and John Brady who cut into their busy schedules and toured a large number of colleges and universities to deliver on behalf of MSA the message that mineralogical research is both exciting and relevant.

The Monograph on Metamorphic Phase Equilibria by Frank Spear has sold over 1000 copies, which means that sales have "turned the corner" in terms of profit for MSA (and the author). If you think you have a best-seller nearly ready to go (e.g., a super undergrad text), please contact Jim Kirkpatrick, Publications Committee Chairman, or Paul Ribbe, Reviews Editor, or any Council member.

Spring AGU is likely to be over before most of you receive this issue of *The Lattice*. So, our next major N. American gathering will be in my adopted home-town of Seattle, and, to judge by the spread put out in the April issue of *GSA Today*, it is going to be an extraordinary meeting. In addition to our usual annual events, we will hold a 75th Anniversary Symposium (with invited speakers Cathy Skinner, Louie Liou, Mike Hochella, Mark Harrison, Brad Hacker, and John Brady), a special Anniversary Reception at the Skyline Level of the Space Needle (your ticket gets you to the top, too), and several MSA-sponsored Symposia, Theme Sessions, and Technical Sessions - all easily identified in the program by our diamond logo. I look forward to seeing you there.



Bernard W. Evans

President



The *Lattice* is published quarterly (February, May, August, November) by the Mineralogical Society of America. It is distributed to MSA members as a service. Articles and letters from readers are welcome.

The Mineralogical Society of America is composed of individuals interested in mineralogy, crystallography, and petrology. Founded in 1919, the Society promotes, through education and research, the understanding and application of mineralogy by industry, universities, government and the public.

Membership benefits include: American Mineralogist, published bi-monthly; 30% discount on volumes in the Reviews in Mineralogy series; The *Lattice*; Membership Directory; special subscription rates for Mineralogical Abstracts, Physics and Chemistry of Minerals, Journal of Petrology, and Journal of Metamorphic Geology; reduced registration fees at MSA short courses; member rates for the MSA/Geological Society of America annual meeting and member rates at MSA's spring meeting with the American Geophysical Union; participation in a Society that supports the many facets of mineralogy.

Dues for 1994 are \$60 for professional members; \$30 for students. Membership is on a calendar year basis. Individuals who join after January 1, 1994 will be sent all back issues of the journal for volume 79, 1994.

For additional membership information and an application, and/or to receive a price list of the Society's publications, contact the Business Office.

Institutions may subscribe to the 1994 volume of *American Mineralogist* for the annual rate of \$250 in the US, \$255 in Canada and Mexico and \$260 in all other countries. The subscription price includes any new volumes of the Reviews in Mineralogy series published during the calendar year of the subscription. Payment must be received in full before a subscription will be started.

1994 President: Bernard W. Evans
University of Washington
Past-President: Alexandra Navrotsky
Princeton University
Vice President: James J. Papike
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Secretary: Stephen J. Guggenheim
University of Illinois at Chicago
Treasurer: Rosalind Helz
U.S. Geological Survey
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Reston, VA 22092
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Mineralogical Society of America
1130 Seventeenth Street N.W., Suite 330
Washington, D.C. 20036
Telephone: (202) 775-4344
FAX: (202) 775-0018

MSA Short Courses

SILICA

Physical Behavior, Geochemistry, and Materials Applications

Date: October 20-23, 1994
Location: Pack Forest Conference Center, Eatonville, WA
Conveners: Peter J. Heaney, Charles T. Prewitt, and Gerald V. Gibbs

The many phases and related derivatives of silica include some of the most important minerals on Earth and are essential components of many industrial materials. Quartz alone comprises an estimated 12% of the Earth's crust by volume, and it is equally common in sedimentary, igneous and metamorphic environments. Because of its predominance, quartz is one of the most thoroughly investigated petrologic resources; it has served as an indicator of processes ranging from gold mineralization to meteorite impacts.

This short course will review the physics, chemistry, and applications of the silica phases, with particular attention to advances made over the past three decades. Topics include:

- *Silica Polymorphs: An Overview* (P.J. Heaney - Princeton)
- *Thermochemistry of Silica Phases* (A. Navrotsky - Princeton)
- *High Pressure Transformations of Silica* (K. Kingma, C. Prewitt, R. Hemley - Carnegie Inst.)
- *Quartz as a Tectonophysical Indicator* (H.-R. Wenk - Berkeley)
- *Hydrogen Speciation in Quartz* (A. Kronenberg - Texas A&M)
- *Structural Characteristics of Microcrystalline Silica* (H. Graetsch - Bochum)
- *Petrogenesis of Microcrystalline Quartz* (P. Knauth - ASU)
- *Stuffed Derivatives of Silica Polymorphs* (D. Palmer - Cambridge)
- *Coloration in Quartz* (G. Rossman - CIT)
- *Solubility Behavior in the Silica System* (P. Dove - GIT, D. Rimstidt - VPI)
- *Physics of Amorphous Silica* (R. Hemley, C. Meade - Carnegie Inst.)
- *The Elusive Si-O Bond* (G.V. Gibbs - VPI)
- *Energy Calculations of Silica Phases* (R. Cohen - Carnegie Inst.)
- *Lattice Dynamics of Silica* (G. Dolino, M. Vallade - CNRS, Grenoble)
- *Industrial Applications of Silica* (G. Beall - Corning)
- *Sol-Gel Processing of Silica Glass* (K. Keefer - Cincinnati)
- *High-Silica Zeolites* (J. Higgins - Mobil)
- *Health Hazards of Silica Dusts* (D. Goldsmith - Western Consortium for Public Health)

Location: The short course will be held at the Pack Forest Conference Center located near the town of Eatonville, WA about 60 miles southeast of SeaTac Airport. Mt. Rainier is

only 22 miles away and there will be time in the schedule for those who want to visit Mt. Rainier National Park. Bus transportation will be provided from SeaTac Airport to Pack Forest on Thursday, October 20, and from Pack Forest to the airport and downtown Seattle hotels on Sunday afternoon, October 23.

Registration: See the short course registration form on p. 4 for registration fees. These fees include housing and meals during the short course. Student scholarships will also be available. Contact the MSA Business Office for details.

Field Trip: Washington State offers some of the finest quartz collecting localities in North America. If a sufficient number of people express interest, there will be a field trip on Thursday, October 20 to one of several possible quartz deposits (quartz clusters, scepter quartz, Japan-twinning quartz) that will be exposed by blasting shortly before the trip. Costs will run \$85 per person, and these fees will cover transportation, lunch, and tools.

VOLATILES IN MAGMAS

Date: December 2-4, 1994
Location: Napa Valley Sheraton, Napa Valley, CA
Conveners: Mike Carroll and John Holloway

TOPICS AND INSTRUCTORS

1. MAGMATIC VOLATILES IN HIGH-TEMPERATURE VOLCANIC GASES - R.B. Symonds and T.M. Gerlach
2. ANALYTICAL METHODS FOR VOLATILES IN GLASSES - P. Ihinger, R. Hervig, P. McMillan
3. EXPERIMENTAL DETERMINATIONS OF H₂O AND CO₂ SOLUBILITIES AND SPECIATION IN SILICATE MELTS - J. Blank, C.W. Burnham, J.R. Holloway, P. McMillan, E.M. Stolper
4. SOLUBILITIES OF THE LESS ABUNDANT VOLATILE SPECIES: SULFUR, NOBLE GASES, NITROGEN, CHLORINE, FLUORINE - M.R. Carroll and J.D. Webster
5. THERMODYNAMIC MODELS OF VOLATILE SOLUBILITIES - J.R. Holloway, C.W. Burnham, E.M. Stolper
6. DIFFUSION OF DISSOLVED VOLATILES IN MAGMAS - E.B. Watson
7. EFFECTS OF VOLATILES ON PHYSICAL PROPERTIES OF MELTS - R. Lange
8. PRE-ERUPTIVE VOLATILE CONTENTS OF MAGMAS - A.T. Anderson, M. Johnson, M.J. Rutherford
9. PHYSICS AND CHEMISTRY OF MAGMA DEGASSING PROCESSES - K.V. Cashman, M.T. Mangan, R.S.J. Sparks
10. VOLCANIC GAS EMISSIONS, EARTH DEGASSING AND LARGE-SCALE GEOCHEMICAL CYCLING OF VOLATILE ELEMENTS - A. Jambon, W. Rose

Registration: See short course registration form on p. 5. For additional information, contact the MSA Business Office.

Registration Form

MSA Short Course Silica: Physical Behavior, Geochemistry, and Materials Applications October 20-23, 1994

Return this registration form, completed, to the MSA Business Office, 1130 17th Street, N.W., Suite 330, Washington, D.C. 20036. FAX: (202) 775-0018. Payment must accompany this form. Registration is limited to 100 individuals on a first-come, first-served basis. Please type or print. All cancellations must be made in writing and received by October 1. No refunds will be made on cancellation notices after this date.

Name _____
(first) (middle initial) (last)

Address _____

(city) (state) (zip/postal code) (province) (country)

Telephone numbers _____
(office) (fax)

Please circle the appropriate registration category.

	<u>Member</u>	<u>Non-Member</u>
Professional: in double room	\$375	\$435*
Student: in double room	\$200	\$230*

*includes MSA dues for 1995.

___ I plan to attend the field trip (Thursday, October 20) and my payment includes an additional \$85.

Please check method of payment:

___ Enclosed is a check or money order in the amount of \$ _____.

___ Please charge my ___ Visa ___ Mastercard

___ Diner's Club ___ American Express card in the amount of \$ _____.

(Your credit card will be charged when the registration form is received.)

(card number) (name on card--please print)

(signature) (exp. date)

Please list any special requirements regarding meals.

Registration Form

MSA Short Course

VOLATILES IN MAGMAS December 3-4, 1994

Return this registration form, completed, to the MSA Business Office, 1130 17th Street, N.W., Suite 330, Washington, D.C. 20036. FAX: (202)775-0018. Payment must accompany this form. Registration is limited to 100 individuals on a first-come, first-served basis. Please type or print. All cancellations must be made in writing and received by November 15. No refunds will be made on cancellation notices after this date.

Name _____
(first) (middle initial) (last)

Address _____

(city) (state) (zip/postal code) (province) (country)

Telephone numbers _____
(office) (fax)

Please circle the appropriate registration category.

	<u>Member</u>	<u>Non-Member</u>
Professional	\$225	\$290*
Student	\$100	\$130*

*includes MSA dues for 1995

Please check method of payment:

_____ Enclosed is a check or money order in the amount of \$ _____
_____ Please charge my _____ Visa _____ Mastercard _____ Diner's Club
or _____ American Express card in the amount of \$ _____

(Your credit card will be charged when the registration form is received.)

_____ (card number) _____ (name on card--please print)

_____ (signature) _____ (exp. date)

Please list any special requirements regarding meals.

MEETING CALENDAR 1994-1995

1994

July

- 7-9 **Third Annual Meeting of the History of the Earth Sciences Society**, The Northeastern Science Foundation, Inc., Rensselaer Center of Applied Geology, 15 Third Street, P.O. Box 746, Troy, NY 12180. Excursions: The Taconic and Catskill Mountains as they relate to 19th Century Geological Controversies. Contributions are invited on all aspects of the history of the earth sciences, particularly on the history of stratigraphy, sedimentology, and paleontology. *Details:* Dr. Gerald M. Friedman.

August

- 14-19 **Clay Minerals Society 31st Annual Meeting**, Saskatoon, Saskatchewan, Canada. *Details:* Ahmet R. Mermut, Dept. of Soil Science, Saskatchewan Institute of Pedology, University of Saskatchewan, Saskatoon S7N 0W0, Canada. Telephone: (306) 966-6839; Fax: (306) 966-6881; E-mail: mermut@saks.usask.ca.

August-September

- 29-2 **VM Goldschmidt Conference - An International Conference for the Advancement of Geochemistry**, Edinburgh, UK. *Details:* Dr. Peter Symms (VM Goldschmidt Conf. 1994), Dept. of Geology and Geophysics, The University of Edinburgh, The Grant Institute, West Mains Road, Edinburgh EH9 3JW, Scotland UK.

September

- 4-9 **International Mineralogical Association (16th General Meeting of the IMA)**, Pisa, Italy. *Details:* Prof. Stefano Merlini, Organizing Committee IMA '94, Dipartimento di Scienze della Terra, Università di Pisa, Via S. Maria, 53, I-56126 Pisa, Italy. Fax: +39 (0)50 40976; E-mail: IMA94@VM.CNUCE.CNR.IT.

October

- 24-27 **Annual GSA/MSA Meeting**, Seattle, Washington. See details elsewhere in this newsletter.

November-December

- 28-2 **Fall Meeting of the Materials Research Society**, Boston, Massachusetts. *Details:* MRS, 9800 McKnight Road, Pittsburg, PA 15237. Telephone: (412) 367-3003; Fax: (412) 367-4373. *Abstract deadline: June 20, 1994.*

December

- 5-9 **AGU Fall Meeting**, San Francisco, CA. *Abstract deadline: September 7, 1994.*

1995

January

- 4-6 **Winter Meeting of the Mineralogical Society of Great Britain**, University of Sheffield. *Magmatic Proceses - Do Answers Lie in the Rocks?* *Details:* Miss P. Mellor, Dept. of Earth Sciences, University of Sheffield, Dainton Bldg. Brookhill, Sheffield S3 7HF, UK. Telephone: (0742) 824940, Fax: (0742) 824207.

May

- 17-19 **Geological Association of Canada-Mineralogical Association of Canada Joint Annual Meeting**, Victoria, British Columbia, Canada. *Details:* Chris Barnes, General Chair, SEOS, University of Victoria, P.O. Box 1700, Victoria, B.C. V8W 2Y2, Canada. Fax: (604) 721-6200.

May-June

- 29-2 **Joint AGU/MSA Spring Meeting**, Baltimore, Maryland.

August

- 19-25 **Euroclay '95 - Clays and Clay Materials Science Conference**, Leuven, Belgium. *Details:* Prof. P. Gorbet, Centrum voor Oppervlaktechemie en Katalyse, K.U. Leuven, K. Mercierlaan 92, B-3001 Heverlee, Belgium.

(Meeting Calendar continued on page 16)

Members in the News

Dr. Cornelius S. Hurlbut III, professor emeritus of mineralogy at Harvard University, has won The Carnegie Mineralogical Award for 1993. The award was presented to Dr. Hurlbut at the 1994 Tucson Gem and Mineral Show, Tucson, Arizona, where he accepted a bronze medallion, a certificate of recognition, and a \$2500 cash prize.

Suggestion Box

No letters for the *Suggestion Box* were received for this issue of *The Lattice*. As President Evans stated in the November *Lattice*, members are welcome to express their views on MSA matters. Letters should be sent to the editor:

Marta Flohr

U.S. Geological Survey
National Center MS 959
Reston, VA 22092

Fax: (703) 648-6789

e-mail: mflorh@lithos.er.usgs.gov

Also, please send one copy of the letter to:

Bernard W. Evans

University of Washington

Dept. of Geological Sciences, AJ20
Seattle, Washington 98195

Fax: (206) 543-3836

THE DEADLINE
FOR THE
AUGUST ISSUE OF
THE LATTICE IS
JULY 18TH

Welcome!

The following new members and students have joined MSA effective January 1, 1994. As they are listed in the enclosed Membership Directory, only their names and sponsors are listed below.

Applications for membership may be obtained from the Business Office, 1130 Seventeenth Street, NW, Suite 330, Washington, DC 20036.

- Baltisberger, Jay H., sponsor: MSA
Boring, Erich S., sponsor: J.M. Hughes
Bove, Phillip J., sponsor: MSA
Cohen, Tobi H., sponsors: F. Spear and B. Watson
Colberg, Mark R., sponsors: A. Patino-Douce and P. Schroeder
Constantinescu, Emil, sponsors: G. Istrate and H. Pentinghaus
Duffy, Thomas, sponsors: R. Hemley and R. Downs
Eberly, Paul, sponsor: MSA
Eckhardt, Margareta M., sponsors: C. Francis and W. Metropolis
Feth, Shari, sponsors: G.V. Gibbs and M.F. Hochella, Jr.
Fousek, Bob, sponsor: MSA
Habern Jr., Michael, W., sponsor: MSA
Hemzacek-Laukant, Jean M., sponsors: H. Murray and W. Moll, Jr.
Hill, Peter G., sponsors: I. Parsons and C. Graham
Ice, Dan, sponsor: MSA
Lawrence, Vicki, sponsor: MSA
Lin, Heather, sponsors: D. Rothstein and C. Manning
Linton, Jennifer, sponsors: E. Smelik and P. Heaney
Maaskant, Pieter, sponsor: MSA
Marchildon, Nathalie, sponsors: G. Dipple and W. Danner
Marr, Robert A., sponsors: D. Baker and P. Hudon
McElfresh, Travis, J., sponsors: J. Myers and K. Nicolaysen
Means, James D., sponsor: MSA
O'Brien, Patrick J., sponsors: A. Woodland and D. Rubie
Phelps, Andrew, W., sponsor: MSA
Putlitz, Benita, sponsor: MSA
Rougvie, James R., sponsors: W. Carlson and C. Denison
Rye, Rob, sponsors: C. Burnham and M. Van Baalen
Selway, Julie, sponsor: MSA
Smith, Robert W., sponsor: MSA
Smoliar, Michael, sponsor: MSA
Sweeney Price, Mary Sue, sponsor: MSA
Terabayashi, Masaru, sponsor: MSA
Wawrzyniec, Tim, sponsor: J. Stout
Wen, Shaoxiong, sponsors: H. Nekvasil and D. H. Lindsley
Xu, Hongwu, sponsors: P. Heaney and E. Smelik

News from the International Centre for Diffraction Data

ICDD Crystallography Scholarship Awards

The International Centre for Diffraction Data announces that it is accepting applications for its 1995 crystallography scholarship awards.

Qualifications: The applicant should be a graduate student seeking a degree with a major interest in crystallography (crystal structure analysis, crystal morphology, modulated structures, correlation of atomic structure with physical properties, systematic classification of crystal structures, phase identification and materials characterization). There are no restrictions on country, race, age or sex. The term of the scholarship is one year. Application for renewal may be made by the recipient at the end of the first year. Because a limited number of scholarships are awarded, renewal applications will be considered on a competitive basis in conjunction with all applications that have been submitted up to the closing date.

Submit: (a) Curriculum Vita. (b) A one-page proposal by the graduate student describing the type of crystallographic research to be partially supported by scholarship. (c) A supportive letter from the sponsoring professor of an accredited university or an institute of technology.

Restrictions: (a) The scholarship stipend of \$2000 is to be used by the graduate student to help defray tuition and laboratory fees. A portion of the stipend may be applied to registration fees to accredited scientific meetings related to crystallography. (b) No more than one scholarship may be awarded to any one accredited institution per year. (c) The funds of the scholarship are not to be used for travel.

Deadline for application: October 31, 1994.

Mail applications to:

Secretary, International Centre for Diffraction Data
Newtown Square Corporate Campus
12 Campus Boulevard
Newtown Square, PA 19073-3273
U.S.A

ICDD Announces Officers and Directors for 1994

Chairman - Gerald G. Jonhson, Jr.
Vice Chairman - Helein D. Hitchcock
Treasurer - Gerhard R. Fischer
Chairman, Technical Committee - Ting C. Huang
Members-at-Large, Board of Directors
Thomas N. Blanton
Cyrus E. Crowder
Walter Eysel
Charlotte Lowe-Ma
Melvin H. Mueller
Past Chairman - Ludo K. Frevel

Distinguished Fellows

The Board of Directors of the ICDD designated Dr. Larry D. Calvert and Prof. Yoshio Takeuchi as Distinguished Fellows of the ICDD for their sustained outstanding

(ICDD News continued on page 16)

[Editor's note: At the Second MSA Council Meeting of 1993, Council voted to publish the proceedings of the annual MSA meetings in *The Lattice*, rather than in *American Mineralogist*, as had been previous practice.]

Proceedings of the Seventy-fourth Annual Meeting of the Mineralogical Society of America in Boston, Massachusetts

REPORT OF THE SECRETARY FOR 1993

The seventy-fourth annual meeting of the Society was held on 25-28 October 1993 in Boston, Massachusetts. Presentations sponsored by MSA were organized into two symposia, one theme session, and fifteen technical sessions. The technical sessions were divided according to discipline: two on experimental petrology (25 abstracts, including posters), four on igneous petrology (68), four on metamorphic petrology (66), three on mineralogy and crystallography (35), and two on volcanology (18). Six of these sessions involved poster presentations, with a total of 86 posters. There were 228 volunteered abstracts submitted and accepted for the five MSA-sponsored categories, with an acceptance rate of above 97% for all categories. The Society's representatives to the GSA Joint Technical Program Committee were Raymond L. Joesten, Robert W. Luth, and Craig M. Schiffries (Chair).

The two Society symposia were "Geochemical aspects of minerals in physiological fluids," with George D. Guthrie, organizer, and "Chlorine and fluorine as monitors of fluid-rock interaction: New Developments," with Jean Morrison and James L. Munoz, organizers. The latter was co-sponsored with the Geochemical Society. There were eight and fourteen abstracts, respectively. The theme session was held on "Teaching mineralogy," with John B. Brady and Jo Laird, organizers. There were sixteen abstracts. Prior to the annual meeting, MSA's short course, "Health effects of mineral dusts," was organized by George D. Guthrie and Brooke Mossman.

The retiring president, Alexandra Navrotsky, presented an address to the Society entitled "Recurring patterns in mineral energetics" on Tuesday, 26 October 1993. After the address, President Navrotsky called the annual business meeting of the Society to order.

Council meetings

The first meeting of the 1993 Council was held on 27 October 1992 in Cincinnati, Ohio; the second was on 23 May 1993 in Baltimore, Maryland; and the third was held on 24 October 1993 in Boston, Massachusetts.

The first meeting of the 1994 Council was also held in Boston, Massachusetts on 26 October 1993.

Discussions and actions by Council, as summarized from minutes of the three 1993 Council meetings and the 1993 Business meeting, are noted below.

Results of the 1993 election

The voting for officers and council members of the Society for 1994 was held during the summer of 1993; the following

officers were elected:

<i>President:</i>	Bernard W. Evans (1994)
<i>Vice-President:</i>	James J. Papike (1994)
<i>Secretary:</i>	Stephen J. Guggenheim (1994-1995)
<i>Councillors:</i>	William Carlson (1994-1996) John W. Valley (1994-1996)

The ballots (744) were certified on 10 September 1993 by Tellers Patricia J. Loferski and Paul A. Schroeder. Approximately 31% of the membership eligible to vote cast their ballots.

Membership statistics

As of December 1993, the Society's 2361 members included 1500 Members (-21 or -1%), 503 Fellows (-25 or -5%), 323 Students (-22 or -7%), 4 Honorary Fellows (no change), and 31 Associated Life Members and Life Fellows (+2 or +7%). Numbers in parentheses are changes from last year.

Necrology

It is with regret that the Society announces the deaths of the following Fellows and Members:

John W. Anthony, Fellow
Bennet F. Buie, Life Fellow
Felix Chayes, Life Fellow
Theodore A. Dodge, Life Fellow
R. C. Emmons, Life Fellow
Jeffrey A. Grambling, Member
Zyunpei Harada, Life Fellow
Choudari Kamineni, Member
Peter H. Manuel, Member
Gunter H. Moh, Member
Alfred E. Ringwood, Life Fellow
Elmer B. Rowley, Life Fellow
Benjamin M. Shaub, Life Fellow
Georges Vanacker, Member
Brian R. Young, Member

Anyone who wishes to honor a deceased Fellow or Member by preparing a memorial should contact Memorialist Brian H. Mason.

Financial affairs

Last year the Council decided to seek outside support to help offset expenses and to expand our outreach programs, such as the lecture program and short courses. Council has

approved a Benefactors program, open to both members and corporations, with the following categories: Sustaining (contributions of \$200 to \$499), Contributing (\$500 to \$999), and Sponsoring (over \$1000). Members of the Society employed in industry were asked to help solicit their employers for corporate sponsors with moderate success. This year, Council will expand the solicitations to corporations providing services to Society members, even if they do not employ members directly.

In *The Lattice*, members were asked this year to participate in developing ideas to market MSA products. In response, Council established the MSA Arts Council, with Barb Dutrow (Chair), Kenneth J. Livi, and, John Rakovan as members. The Arts Council has proposed a matching tie and scarf with a mineralogical motif (e.g., garnet crystal) as the first product. The products will be marketed to both Society members and members of mineral clubs throughout the world. Manufacturing of the set is expected to be completed in time to be sold at the Tucson Mineral Show.

The financial status of the Society is discussed in detail in the Report of the Treasurer.

American Mineralogist

The 1993 Council approved the appointments of new Editors, Theodore C. Labotka and Richard J. Reeder, to replace Steven R. Bohlen and Donald R. Peacor. Furthermore, the following Associate Editors, who will serve for the three-year period 1994-1996, were newly appointed: Jonathan Berg, Paula Davidson, Robert W. Luth, Jean Morrison, and Nancy Ross.

Awards

The 1994 Roebling Medal will be awarded to William A. Bassett (Cornell University) and the 1994 Mineralogical Society of America Award to Ronald E. Cohen (Carnegie Institution). The Distinguished Public Service Medal of the Mineralogical Society of America will be awarded to Konrad B. Krauskopf (Emeritus, Stanford) this year.

The recipient of the 1994 Kraus Crystallography Award is Peter C. Burns, University of Manitoba.

The *American Mineralogist* Undergraduate Award was presented to 21 students in 1993.

Fellowship

Council approved Fellowship status for the following members of the Society:

Rob Berman
Mark S. Ghiorso
John M. Hughes
Theodore C. Labotka
Marcello Mellini
John W. Valley

Nominations for officers for the 1994 election

<i>President:</i>	James J. Papike
<i>Vice-President:</i> (one to be elected)	Gordon E. Brown Larry W. Finger (not on ballot)
<i>Secretary:</i>	Rosalind T. Helz
<i>Treasurer:</i> (1994-1995)	
<i>Councillors:</i> (1994-1996) (two to be elected)	Timothy L. Grove Paul McMillan Andrew Putnis Jonathan F. Stebbins

Other

A committee to examine the future directions of the Society was established by Council and the report was presented by the Chair, Jonathan Stebbins. The committee recommendations were reported in the November 1993 *Lattice*. The Society published its first monograph, "Metamorphic phase equilibria and pressure-temperature-time paths" by Frank S. Spear. The *Reviews in Mineralogy* series continues, with the 28th volume published this last year. John B. Brady and George R. Rossman are the 1993-1994 lecturers for the MSA Lecture Program. This program continues to be popular; there were fifty requests for speakers from geoscience departments this past year. Each speaker expects to visit about nine institutions. The Society will establish an electronic bulletin board shortly. Details will be announced in *The Lattice*.

Several new items will be on the agenda in the coming months, including whether the Society should elect the Vice President a year early so that he/she can obtain greater experience prior to becoming President, how to respond to the need of earth scientists in the former Soviet Union and Eastern Europe, how best to implement the recommendations regarding the *American Mineralogist* as given in the report presented by J. Stebbins, and final preparations for the 75th Anniversary of the Society.

STEPHEN GUGGENHEIM

REPORT OF THE TREASURER FOR 1993

This report summarizes the financial activity of the Mineralogical Society of America for the calendar year 1993. The financial statements have been audited by Edward A. Bortnick, Chartered Certified Public Accountants of Rockville, Maryland. The financial statements given in this report are taken from that audit.

Table 1 shows the Statement of Assets, Liabilities, and Fund Balances, with the equivalent summary numbers from 1992 for comparison. As of the end of 1993, there was a negative balance of \$84,413 in the General Operating Fund, which was more than offset by a positive balance of \$864,806 in the Reserve (Endowment) Fund. In addition to the Reserve fund,

Table 1. Mineralogical Society of America Balance Sheets For the Years Ended December 31, 1993 and 1992

			Unrestricted			Restricted		
	1992 Total	1993 Total	General Operating Fund	Reserve Fund	Total	Edward H. Kraus Crystallographic Research Fund	Mineralogy/ Petrology Fund	Total
Assets								
Cash	\$203,687	\$161,080	\$161,080	\$ --	\$161,080	\$ --	\$ --	\$ --
Investments	949,329	1,015,861	--	877,542	877,542	56,958	81,361	138,319
Accounts Receivable	16,423	16,807	16,807	--	16,807	--	--	--
Prepaid Expenses and Deposits	15,444	15,858	15,858	--	15,858	--	--	--
Interfund Borrowings	--	--	9,761	(12,736)	(2,975)	686	2,289	2,975
Fixed Assets, Net	12,337	12,335	12,335	--	12,335	--	--	--
Total Assets	\$1,197,220	\$1,221,941	\$215,841	\$864,806	\$1,080,647	\$57,644	\$83,650	\$141,294
Liabilities and Fund Balances								
Accounts Payable and Accrued Expenses	\$18,414	\$50,274	\$50,274	\$ --	\$50,274	\$ --	\$ --	\$ --
Due to Other Publishers	19,369	20,185	20,185	--	20,185	--	--	--
Deferred Revenues:								
Dues	68,535	66,900	66,900	--	66,900	--	--	--
Subscriptions	215,970	162,895	162,895	--	162,895	--	--	--
Total Liabilities	\$322,288	\$300,254	\$300,254	\$ --	\$300,254	\$ --	\$ --	\$ --
Commitments								
Fund Balances	874,932	921,687	(84,413)	864,806	780,393	57,644	83,650	141,294
Total Liabilities and Fund Balances	\$1,197,220	\$1,221,941	\$215,841	\$864,806	\$1,080,647	\$57,644	\$83,650	\$141,294

the society has two smaller restricted-purpose funds: the Edward H. Kraus Crystallographic Research Fund, which had a balance of \$57,644, and the Mineralogy/Petrology Fund, which had a balance of \$83,650. During 1993, the balance in the General Operating Fund decreased by \$36,006. The other funds all increased: the Reserve fund by \$61,249, the Edward H. Kraus Crystallographic Research Fund by \$2947, and the Mineralogy and Petrology Fund by \$6390. All securities in the various funds are evaluated on a cost basis. Table 1 shows that the Society's net worth has increased \$24,721 during 1993.

This increase is due to (1) continued efficiency in managing the *American Mineralogist* and an absence of any extraordinary projects such as special volumes, (2) the successful fund-raising efforts of short course convenor George Guthrie, who obtained two grants for a total of \$22,225 to help underwrite the expenses of the short course on the health effects of mineral dusts, which was given in conjunction with the 1993 GSA meeting in Boston, (3) strong initial sales of Frank Spear's new monograph on metamorphism, and (4) as in 1992, a substantial increase in the market value of the Society's securities portfolio. The one weak area in our financial picture was sales of RIMs volumes, which were down in 1993, both relative to 1992 and to projections for 1993.

Breakdown by funds

The Society has four funds. The General Operating Fund, which encompasses all aspects of the Society's operations, showed a total deficiency of revenues relative to expenses of \$36,006, which includes \$12,736 still owed to the GOF from the Reserve fund for Life Member subscriptions and awards in 1993, plus an operating deficit for 1993 of \$23,269. This operating deficit is 3.75% of the total budget of the Society. Both amounts will be taken from the Reserve Fund in 1994, the former as a matter of course, and the latter amount in accordance with Council's previous (1991) decision for handling shortfalls in the Operating Fund. This leaves a negative balance in the General Operating Fund of \$48,400, which reflects operating deficits in 1990 and earlier years.

Income from the Society's Reserve Fund, which provides some support for Society operations and special projects, showed an excess of \$76,371 in income over regular expenses in 1993. After subtraction of \$15,112 to cover the 1992 deficit (transferred in 1993) and of \$23,269 to cover the 1993 deficit (to be transferred in 1994), the net increase in the Endowment Fund will be \$40,365. The total income from the Reserve Fund in 1993 was \$94,234; thus by early 1994 the Society will have spent 54% of the endowment income that accrued during the 1993 fiscal year, which is more than the 33% that prudent fund management would recommend.

The Edward H. Kraus Crystallographic Research Fund and the Mineralogy-Petrology Fund make biennial research grants to promising young scientists, in alternate years. The Edward H. Kraus Crystallographic Research Fund grew by \$2947 in 1993. The Mineralogy and Petrology Fund, which made an award of \$3500 in 1993, nevertheless grew by \$3443 during 1993.

Discussion

The Society's financial performance in 1993 was slightly worse than anticipated in the original budget. That budget projected a deficit of \$27,591 for 1993, and the actual deficit was \$36,006, or \$8415 more than expected. Performance at the *American Mineralogist* and *The Lattice* were close to normal and the short course actually showed a small profit, thanks to George Guthrie's efforts in obtaining grants. The largest surprise in the budget was the falloff in RIMs sales. This was partly offset by better-than-hoped sales of the Spear monograph; nevertheless the principal reason for the larger deficit was slow RIMs sales, in particular, slow sales of the latest volume.

On the income side, income from dues and subscriptions was almost exactly as projected, reflecting lower-than-projected attrition rates and slight increases in dues and subscription charges. The outlook for 1994 suggests that, barring renewed attrition of members and subscribers, and barring major declines in income from the Society's endowment, the Society's budget deficit should be in the range of 2-5% for the coming year.

Summary

To summarize, in 1993 the Mineralogical Society of America continued on the course established last year: in general we are living within our means, though it should be noted that this depends on obtaining a good return on the Society's Reserve Fund. We are currently operating close to the limit of what has been our endowment income in a strong stock market. The Society's investment portfolio continued to perform well in 1993 (as documented in the Report of the Financial Advisory Committee, which will be published in the August *Lattice*). The total net worth of the Society as shown in Table 1 has increased from \$1,197,220 in 1992 to \$1,221,941 by the end of 1993.

ROSALIND TUTHILL HELZ

REPORT OF THE EDITORS FOR 1993 (OCTOBER 1, 1992 - SEPTEMBER 30, 1993)

Journal operations continued at a brisk pace this year. As can be seen in Table 2, we received 227 manuscripts, and we rejected 79 manuscripts.

In the beginning of the year, we established two goals for the editorial office and the journal. These were (1) to reduce the length of time required to publish an article in the journal and (2) to prepare the journal for a change in Editors in an effort to enhance the smooth transfer of responsibilities.

Because of the exceptional circumstances of the past four years, the average length of time required for publication of a regular article (not a Letter) in *American Mineralogist* had increased from about 12 months to over 14 months. Much of this increase could be attributed to the large number of papers in the system in 1991, the year that the Thompson issue was published. Regardless of the causes, the authors and the Editors thought that it was unacceptable and harmful to the overall quality of the journal for the period from submission to publication to be so long. Even though we were acutely aware of the problem, this year was the first during which circumstances allowed any improvement in this area. We are happy to report that we have reduced the average time from submission to publication to just over 11.5 months for papers in the November-December issue. Because we have worked to reduce the number of papers in the various stages of the editorial process, the journal is poised to reduce this number to below 11 months in coming issues. In short, now is a very good time to submit papers to *American Mineralogist*. Our editorial system is lean and prepared for rapid editorial processing. Furthermore, we have analyzed the time consumed at various stages in the process of review, revision, editing, and publication. Two areas that are ripe for improvement are the time required to obtain reviews (roughly 50 days) and the time required to obtain revised manuscripts (roughly 55 days). Even modest improvement in these areas could easily cut publication time by a month.

Letters continue to be published on a very tight schedule, with publication times that rival any journal. During the year, the average length of time required for the publication of a Letter was about 3.8 months, a remarkable achievement for a journal that is only published every two months.

The transferral of editorial responsibilities has proceeded very smoothly. In August, Richard Reeder (SUNY-Stony Brook) and Theodore Labotka (University of Tennessee) began to assume responsibilities for journal operations with the editing of the January-February 1994 issue of the journal, while Don and Steve continued work on the issues to be published in 1993. At about the same time, the editorial office was moved from the campus of the University of Michigan to a small office off campus. The new address is 202 East Washington Street, Room 510, Ann Arbor, Michigan, 48104. The telephone and fax numbers are 313-665-2425 and 313-665-2773, respectively. The gradual transfer of duties to the new Editors while the Managing Editor continued in her capacity has allowed for continuity in journal operations. The smooth transition, with the relatively low number of papers in the editorial system, provides the new Editors with flexibility

**Table 2. Summary of *American Mineralogist* Operations
October 1, 1992 to September 30, 1993**

Vol.	Issue	No. of Scientific Articles	Pages of Scientific Articles	Pages of Miscella- neous	Total Pages	Signatures*
77	Sept/Oct	27	229	3	232	7.25
77	Nov/Dec	18	177	31	208	6.5
78	Jan/Feb	30	242	2	244	7.625
78	March/April	27	224	0	224	7
78	May/June	25	210	2	212	6.625
78	July/Aug	21	173	23	196	6.125
78	Sept/Oct	25	240	0	240	7.5
78	Nov/Dec	27	223	33	256	8
Total (v. 78)		155	1312	60	1372	42.875
<u>For comparison: 1992</u>						
Total (v. 77)		149	1275	65	1340	41.875
<u>For comparison: 1991</u>						
Total (v. 76)		195	1996	72	2068	64.625
<u>For comparison: 1990</u>						
Total (v. 75)		161	1422	52	1474	46.063
<u>Manuscripts submitted:</u>						
10/1/92 to 9/30/93:			227			
10/1/91 to 9/30/92:			252			
10/1/90 to 9/30/91:			220			
10/1/89 to 9/30/90:			269			
<u>Manuscripts rejected:</u>						
10/1/92 to 9/30/93:			79			
10/1/91 to 9/30/92:			115			
10/1/90 to 9/30/91:			59			
10/1/89 to 9/30/90:			45			
<u>Manuscripts withdrawn:</u>						
10/1/92 to 9/30/93:			12			
10/1/91 to 9/30/92:			9			
10/1/90 to 9/30/91:			26			
10/1/89 to 9/30/90:			17			

*One signature equals 32 pages

in charting a course for the future and in enhancing the prestige of the journal.

Many contribute to the success of *American Mineralogist*. The following Associate Editors retired in 1993: Ross Angel, Jay Bass, John Brady, Phil Brown, and Mark Giorso. Jonathan Stebbins, who was scheduled to retire this year, graciously agreed to continue with his duties for another year. All are thanked for their years of service. We also welcome the arrival of new Associate Editors for the period 1994 through 1996: Jonathan Berg, Paula Davidson, Robert Luth, Jean Morrison, and Nancy Ross.

At the meeting in Boston, Don and Steve bid the journal farewell and expressed many thanks and deep gratitude to Managing Editor Vicki Lawrence for her years of tireless efforts on behalf of the journal, the Society, and the sanity of two harried editors.

STEPHEN R. BOHLEN, Editor
DONALD R. PEACOR, Editor
VICKI LAWRENCE, Managing Editor

REVIEWERS OF MANUSCRIPTS EITHER ACCEPTED OR REJECTED IN 1993

Abbott, R.	Bayliss, P.	Burns, R. G.	Cumming, G. L.	Erjavec, J.
Ahrens, T.	Bebout, G. E.	Burruss, B.	Czamanske, G. K.	Essene, E. J.
Altaner, S. P.	Berman, R.	Burt, D. M.	Dai, Y.	Evans, B. W.
Amthauer, G.	Besancon, J. R.	Burton, B.	Dingwell, D. B.	Feenstra, R. M.
Anderson, F.	Bény, C.	Cameron, M. E.	Dollase, W. A.	Finger, L.
Anovitz, L. M.	Bickford, P.	Canil, D.	Downs, J. W.	Fiquet, G.
Aranovich, L.	Bish, D.	Carlson, W.	Downs, R. T.	Florence, F. P.
Armbruster, T.	Bohlen, S. R.	Carmichael, D. M.	Duba, A.	Flowers, G.
Ashwal, L.	Brady, J.	Cashman, K.	Dunn, P. J.	Foit, F. F., Jr.
Bacon, C. R.	Brantley, S.	Chakoumakos, B. C.	Dunn, S. R.	Foord, E. E.
Bai, Q.	Brigatti, M. F.	Chao, G.	Durben, D.	Foster, C. T.
Baker, D. R.	Brophy, J. G.	Cheney, J.	Dutrow, B.	Fowler, T.
Bancroft, G. M.	Broughton, J.	Chernosky, J. V., Jr.	Dyar, M. D.	Freed, R. L.
Banfield, J.	Brown, G. E.	Chopelas, A.	Eckert, J.	Frey, M.
Barton, M.	Brown, J. M.	Chou, I-M.	Eggleton, R.	Fritsch, E.
Bass, J.	Brown, N.	Christoffersen, R.	Emslie, R.	Frost, B. R.
Bassett, W.	Brown, P.	Cohen, R.	Enami, M.	Gaite, J. M.
Bau, M.	Burnham, C. W.	Crawford, M. L.	Ercit, T. S.	Gasparik, T.

Gaudette, H. E.	Hughes, J.	McCormick, T.	Powell, D. R.	Snyder, D.
Gerlach, T.	Jackson, M. D.	McDonald, A.	Powell, R.	Snyder, R.
Ghiorso, M.	James, O. B.	McGuire, A.	Presnall, D.	Sorensen, S. S.
Ghose, S.	Jenkins, D. M.	Mellini, M.	Prewitt, C. T.	Stebbins, J.
Gibbs, G. V.	Johnsen, O.	Melson, W. G.	Pring, A.	Stolper, E.
Gioliani, G.	Johnsson, P.	Merlino, S.	Raade, G.	Sturman, D.
Gordon, T.	Joswig, W. H.	Meunier, J. D.	Rancourt, D.	Su, W.
Graham, C. M.	Kampf, A. R.	Meyer, H. O. A.	Redfern, S. A. T.	Treiman, A.
Grambling, J. A.	Kerrick, D. M.	Meyl, M. J.	Reeder, R. J.	Tse, J.
Gratz, A. J.	Kirkpatrick, R. J.	Miser, D. E.	Reynolds, S.	Vali, H.
Green, H. W.	Kodama, H.	Mitchell, R. H.	Ribbe, P.	Vaughan, D.
Green, T.	Kohn, J. A.	Moore, P. B.	Robert, F.	Vaughan, M.
Gregory, R.	Kohn, M.	Mumme, W. G.	Ross, N.	Veblen, D. R.
Grice, J.	Kunz, M.	Murowchick, J. B.	Rossman, G. R.	Volfinger, M.
Griffen, D. T.	Labotka, T. C.	Mysen, B. O.	Rouse, R. C.	Wallace, P.
Groat, L.	Lager, G. A.	Nabelek, P.	Ryder, G.	Watson, E. B.
Guggenheim, S. J.	Laird, J.	Nash, W.	Ryerson, F. J.	Waychunas, G.
Gunter, M. E.	Lamb, W.	Navrotsky, A.	Sack, R. O.	Webster, J. D.
Guthrie, G.	Lang, H.	Nell, J.	Saxena, S. K.	Weidner, D.
Haggerty, S. E.	Lange, R.	Newton, R. C.	Schaefer, M.	Welch, M.
Harlov, D. E.	Larson, E.	O'Day, P.	Schiffman, P.	Wendlandt, R.
Harlow, G.	Leshner, C.	O'Neil, H.	Schumacher, J. C.	Wenk, H. R.
Haselton, H. T.	Lindsley, D. H.	Olsen, S. N.	Shankland, T.	White, W. B.
Hatch, D. M.	Livi, K. J.	Ottonello, G.	Sharma, S. K.	Whitney, D.
Hawthorne, F.	Lofgren, G.	Parise, J. B.	Sharp, T.	Wicks, F. J.
Helz, R.	Lohr, L.	Patel, A.	Sharp, W. E.	Wiebe, R. A.
Hemley, R.	Lowe, J. P.	Patiño-Douce, A. E.	Shau, Y. H.	Williams, Q.
Henderson, C. E.	Lowenstern, J. B.	Pawley, A. R.	Shaw, H. R.	Wilshire, H. G.
Henry, D. J.	Luhr, J.	Peacor, D. R.	Sherman, D.	Winkler, B.
Hewing, R.	Mangan, M.	Pearce, T.	Sherriff, B. L.	Wise, M. A.
Hewitt, D.	Mann, S.	Perkins, D., III	Simmons, W. B.	Wohletz, K.
Hochella, M.F.	Manning, C. E.	Peterson, R. C.	Sisson, T. W.	Wolf, G.
Hofmeister, A. M.	Manning, D.	Petrov, I.	Sisson, V. B.	Wylie, A. G.
Holdaway, M. J.	Maresch, W. V.	Phillips, B. L.	Smelik, E. A.	
Hovis, G. L.	May, H.	Poppi, L.	Smith, D.	
Huebner, J. S.	McCammon, C.	Post, J. E.	Smyth, J. R.	

LIST OF 1994 OFFICERS AND COMMITTEES

President

Bernard W. Evans, University of Washington, Seattle, Washington

Past President

Alexandra Navrotsky, Princeton University, Princeton, New Jersey

Vice-President

James J. Papike, University of New Mexico, Albuquerque, New Mexico

Secretary

Stephen J. Guggenheim, University of Illinois at Chicago, Chicago, Illinois

Treasurer

Rosalind T. Helz, U.S. Geological Survey, Reston, Virginia

Councillors

1992-1994

Michael F. Hochella, VPI & SU, Blacksburg, Virginia
Joseph R. Smyth, University of Colorado, Boulder, Colorado

1993-1995

John B. Brady, Smith College, Northampton, Massachusetts
Anne M. Hofmeister, University of California, Davis, California

1994-1996

William D. Carlson, University of Texas, Austin, Texas
John W. Valley, University of Wisconsin, Madison, Wisconsin

APPOINTIVE POSTS FOR 1994

Roebbling Medal Committee

John W. Valley, Chair (Incoming Councillor)
Arden L. Albee
S. W. Bailey
Maryellen Cameron
Stephen E. Haggerty
E-an Zen

MSA Award Committee

William D. Carlson, Chair (Incoming Councillor)
Ian S. E. Carmichael
Larry W. Finger
Edward D. Ghent
Jill D. Pasteris
Frank S. Spear

Research Grant Committee

(Even-numbered years, crystallography; odd-numbered years, mineralogy-petrology; 1994 Committee will recommend a recipient for the 1995 award in mineralogy-petrology.)

Anne Hofmeister, Chair (Current Councillor)
Jonathan H. Berg
Gary E. Lofgren
John Longhi
Virginia B. Sisson
Richard A. Yund

Public Service Award Committee

Malcolm Ross (1992-1994), Chair
Priscilla C. Grew (1992-1994)
George R. McCormick (1993-1995)
Peter J. Wyllie (1993-1995)
Charles W. Burnham (1994-1996)
Paul B. Barton (1994-1996)

MSA Lecture Program Committee

Henry O. Meyer, Lecture Coordinator
Jeffrey E. Post (1992-1994), Chair
Harry W. Green, II (1992-1994)
J. Lawford Anderson (1993-1995)
Randall T. Cygan (1994-1996)
Jane Selverstone (1994-1996)

Nominating Committee for Fellows

George R. Rossman (1992-1994), Chair
John B. Brady (1993-1995)
Paul H. Ribbe (1994-1996)
Charles A. Geiger (1994-1997)

MSA Delegates to the Joint Technical Program Committee of the GSA

Robert W. Luth, Representative and Chair (1993-1995)
Raymond Joesten, Conferee (1993-1995)
Lawrence M. Anovitz, Abstractor (1994-1996)

MSA Delegate to the AGU Program Committee

Charles Mead (1994-1996)

Nominating Committee for Officers

Michael F. Hochella, Chair (Outgoing Councillor)
Darrell J. Henry
Theodore C. Labotka
David London
Harry Y. McSween, Jr.

Tellers Committee

Paul Schroeder (1993-1995), Chair
James J. McGee (1994-1996)

Committee on Committees

James J. Papike, Chair (Vice-President)
Stephen J. Guggenheim, Secretary
Gordon E. Brown, Jr., Vice-President Candidate for 1994
Larry W. Finger, Vice-President Candidate for 1994
George W. Fisher
Robert K. Popp

Committee on Management

William D. Carlson, Chair
Stephen J. Guggenheim, Secretary
Rosalind T. Helz, Treasurer
David A. Hewitt, Chair, Financial Advisory Committee
Ian D. MacGregor (1993-1995)
Bruce D. Marsh (1992-1994)
J. Stephen Huebner (1994-1996)
Richard J. Reeder, Editor

Financial Advisory Committee (6-year terms)

David A. Hewitt, Chair (1991-1996)
William D. Carlson, Chair, Committee on Management
Rosalind T. Helz, Treasurer
J. H. Stout (1989-1994)
Douglas Rumble III (1993-1998)
Charles V. Guidotti (1994-1999)

Publications Committee

R. James Kirkpatrick, Chair (1994-1996)
Rebecca A. Lange (1993-1995)
John T. Cheney (1994-1996)
Theodore C. Labotka, Editor
Vicki Lawrence, Managing Editor

Committee on Short Courses

Derrill M. Kerrick (1992-1994), Chair
Paul H. Ribbe, Editor, *Reviews in Mineralogy*
Jonathan F. Stebbins (1992-1994)
Mark D. Barton (1993-1995)
Jonathan G. Price (1994-1996)

Archivist

Harvey E. Belkin

Memorialist

Brian H. Mason (1985)

American Mineralogist

Editor: Richard J. Reeder

Editor: Theodore C. Labotka

Managing Editor: Vicki Lawrence

Board of Associate Editors

New Mineral Names

John L. Jambor (1987)

1991 through 1994

Jonathan Stebbins

1992 through 1994

Thomas Armbruster

Ron Cohen

Joel Grice

R. L. Freed

1993 through 1995

Barbara Dutrow

George D. Guthrie

Claude Herzberg

Anthony R. Kampf

James F. Luhr

William P. Nash

Dexter Perkins III

David M. Sherman

1994 through 1996

Jonathan Berg

Paula Davidson

Robert W. Luth

Jean Morrison

Nancy Ross

Reviews in Mineralogy

Editor: Paul H. Ribbe

The Lattice

Editor: Marta J. K. Flohr

Representatives to Other Organizations

American Crystallographic Association: Bernhardt J. Wuensch (1981)

American Geological Institute: M. Charles Gilbert (1991)

AGU Mineral Physics Committee: Robert M Hazen (pro tem 1988)

Clay Minerals Society: David L. Bish (1988)

Coalition for Earth Science Education: David W. Mogk (1994)

European Union of Geology: Jeffrey Post (1992)

Friends of Mineralogy: Eugene E. Foord (1987)

Gemological Society of America: George Rossman (1992)

International Mineralogical Association: Charles W. Burnham (1989)

JCPDS International Centre for Diffraction Data: Deane K. Smith (1974)

Mineral Museums Advisory Council: George E. Harlow (1994)

Mineralogical Abstracts (American Abstracts Organizer): Karl A. Riggs, Jr.

Pegmatite Interest Group in association with MAC: Dave London (1992)

MSA Representatives On IMA Commissions

Applied Mineralogy: H. Catherine W. Skinner (1992)

Crystal Growth: R. James Kirkpatrick (1983)

Gem Materials: Henry O. A. Meyer (1982)

History & Teaching: Cornelis Klein (1985)

Mineral Data & Classification: Paul B. Moore (1977)

Museum: Anthony R. Kampf (1992)

New Minerals & Mineral Names: Pete J. Dunn (1985)

Ore Microscopy: James R. Craig (1977)

Physics of Minerals: Subrata Ghose (1989)

Meeting Calendar (cont. from p. 6)

1995

August-September

28-1 **Tectonics and Metallogeny of Early/Mid Precambrian Orogenic Belts**, Montreal, Canada.

Details: J.A. Percival, Geological Society of Canada, 601 Booth St., Ottawa, Ontario, Canada, K1A 0E8. Telephone: (613) 995-4723, Fax: (613) 995-9273; e-mail: jpercival@601C.gsc.emr.ca.

28-2 **Third Hutton Symposium: The Origin of Granites**, College Park, Maryland. *Details:* Michael Brown, Dept. of Geology, University of Maryland, College Park, MD 20742. Telephone: (301) 405-4082, Fax: (301) 314-9661.

IN MEMORIAM

We regret to announce the passing of the following MSA member. The Society extends its condolences to the families and friends of this scientist.

Vallance, T.G.
Member, 1949

ICDD News (cont. from p. 7)

contribution to the organization and in the field of powder diffraction. Dr. Calvert is the first ICDD member to receive this honor posthumously.

New Products

New products of interest to powder diffractionists are the Mineral Powder Diffraction File, Data Book, and Search Manual and the revised publication of Sets 14-15 Data Book. The Minerals Powder Diffraction File Data Book and Search Manual contain more than 3800 patterns representing 3200 minerals. The data contained in the Sets 14-15 Data Book were first published in data book form in 1972. The data contained in the new publication have been through an extensive editorial review and evaluation process. Additional information about ICDD products may be obtained by calling +1-610-325-9810.

Call for Papers - AGU Chapman Conference on *Scrutiny of Undergraduate Geoscience Education: Is the Viability of Undergraduate Geoscience Education in Jeopardy as We Approach the 21st Century?*

The conference will be September 7-11, 1994 in Washington D.C. at the new AGU headquarters. Abstract deadline is July 15, 1994, and a camera-ready original and two copies of all abstracts should be submitted in standard AGU format to: AGU, Chapman Conference on Scrutiny, 2000 Florida Ave. N.W., Washington, D.C. 20009. For further information contact Dorothy L. Stout, Dept. of Physical Sciences, Cypress College, Cypress, CA 90630, (714) 826-2220 ext 153.

This will be an excellent opportunity for MSA members to follow-up on the very successful theme session on "Teaching Mineralogy" that was held at the 1993 GSA Annual Meeting.



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