

# The Lattice

## MEMBERS NOMINATE OUTSTANDING STUDENTS IN MINERALOGY FOR SOCIETY'S UNDERGRADUATE AWARD

Twelve MSA members have taken advantage of the Society's American Mineralogist Undergraduate (AMU) Award program to recognize nine outstanding students who have shown an interest and ability in the discipline of mineralogy. Each student was cited by his or her department for outstanding achievement in mineralogy-related courses. The AMU Awards allow MSA to join with the individual faculty to formally recognize outstanding students. Each student is presented a certificate at an awards ceremony at his or her university or college. In addition, each recipient receives a complimentary student membership, including *American Mineralogist*, for 1995.

Deadlines for nominating students are January 1 and July 1 of each year. Please mark the next date on your calendars so you can be watching for that exceptional student. To nominate a student, send a letter on departmental letterhead giving the student's full name (for the certificate), the student's address that will be current at the time the award will be made to which the *American Mineralogist* can be mailed,

year in school, the MSA sponsor's name, and the date and brief description of the award ceremony at which the certificate will be presented. The letter must be signed or co-signed by the department chair. Send the letter to Dr. J. Alexander Speer, MSA Business Office, 1015 Eighteenth St., NW, Suite 601, Washington, DC 20036.

The Society welcomes the following exceptional students to the program's honor roll and wishes to thank both the contributors to the MSA Endowment Fund and the nominators for enabling MSA to recognize these outstanding individuals.

Cynthia Denise Babecka  
Georgia State University  
*Sponsored by David A. Vanko*

Shawn D. Beltman  
La Salle University  
*Sponsored by Alice L. Hoersch*

Rebecca A. Chrisfield  
University of Missouri-Rolla  
*Sponsored by Richard D. Hagni*

David Delaney  
Louisiana State University  
*Sponsored by Barb Dutrow*

Kevin Kahmak  
Western Michigan University  
*Sponsored by Ronald B. Chase and John D. Grace*

Kevin C. A. Peterson  
Acadia University  
*Sponsored by Sandra M. Barr*

Paula Pillonen  
Laurentian University  
*Sponsored by Andy M. McDonald*

Lori Savel  
University of Pittsburgh  
*Sponsored by Edward G. Lidiak*

Erich John Weissbart  
Virginia Polytechnic Institute  
*Sponsored by Robert J. Tracy and Michael F. Hochella*

### MSA/GSA Meeting Information

The 1995 Annual MSA/GSA Meeting will be held on November 6-9 in New Orleans, Louisiana. See page 4 for details of MSA activities at the meeting.

The MSA Council has decided that MSA/GSA meeting information and forms will no longer be published in *The Lattice*. Information and registration forms may be obtained by contacting the MSA Business Office (telephone: 202-775-4344; fax: 202-775-0018), by contacting GSA (telephone: 303-447-2020; fax: 303-447-1133), or by checking the June issue of *GSA Today*, which contains the necessary information and forms.

Information is also available on the internet:  
<http://www.aescon.com/geosociety/index.html>

The daily technical session schedule will be published in the September issue of *GSA Today*.

Important dates:

preregistration deadline - September 29, 1995  
housing registration - October 6, 1995

## From the President

The spring MSA council meeting was held at the Hyatt Regency Hotel in Baltimore on Sunday, May 28. Several important activities and decisions that were made will be summarized below. Council decided to initiate annual environmental mineralogy and geochemistry symposia at the Geological Society of America meetings. The "First Environmental Mineralogy and Geochemistry Symposium" will be held at the 1996 Denver GSA meeting, October 28-31. It will be co-sponsored by the MSA and the Clay Minerals Society. Dave Bish and George Guthrie will be co-organizers of this symposium. We will attempt to schedule these symposia on Tuesday afternoons after the Society lunch and before the evening MSA/Geochemical Society social event. Tuesday will become the big day for MSA at the GSA meetings. Treasurer Rosalind Helz reported that the financial health of our Society is very good with our net worth estimated at ~\$1.2 million. The financial advisory committee has done an outstanding job with our investments. Council expressed their appreciation to the committee through Chair Dave Hewitt. A new "Membership and Outreach Committee" was established and Vice-President Gordon Brown is working on a formal description and committee mandate. Following recommendations of the Publications Committee, it was decided to start an MSA "Textbook Series" emphasizing upper undergraduate and graduate level texts. Paul Ribbe, Series Editor, will return to Council with a final set of recommendations at the November council meeting. A ten-year lease was signed for space for the MSA business and editorial offices. The space is located at 1015 18th Street and includes 2767 square feet (2067 ft<sup>2</sup> office space and 700 ft<sup>2</sup> on site storage). The space is presently being configured for both the business and editorial functions. The business office will have moved at the end of July 1995 and the editorial offices will move in the July 1996 to January 1997 time-frame. I believe that the bringing together of these two important societal functions represents an important milestone for the

## Mineralogical Society of America.

This letter represents the last of four from me as president. The major challenge of my presidency was to respond to staff turnover in both the business and editorial offices. I and council responded to this challenge by hiring our first Ph.D. geoscientist administrator, Dr. Alex Speer, and by initiating the combination of the business and editorial offices at a location which was deemed optimal for our outreach programs.

Please continue to write me about your concerns and I will address as many as I can before November; the rest I will pass on to President-Elect Gordon Brown. Thank you all for your help and support. Ours is a great society that keeps getting better with age.

James J. Papike



President

## Members in the News

Josef Zemann of Vienna is the recipient of one of two Emanuel Bořický Medals awarded by the Faculty of Science Charles University in 1995.

### Advertisements in *The Lattice*

*The Lattice* accepts paid advertisements. All items advertised must relate to mineralogy, crystallography, or petrology or use of these disciplines in other sciences, industry, technology, or the arts. Rates: Full page:\$400 Half page:\$200 Quarter page:\$100 Eighth page:\$50 Details may be obtained from the MSA Business Office: J. Alex Speer, Mineralogical Society of America, 1015 Eighteenth Street N.W., Suite 601, Washington, D.C. 20036, Telephone: 202-775-4344, Fax: 202-775-0018.

Only camera-ready copy of advertisements can be accepted, and should be sent directly to the new editor of *The Lattice*: Darrell J. Henry, Dept. of Geology and Geophysics, Louisiana State University, Baton Rouge, LA 70803. Phone: 504-388-2693; fax: 504-388-2302.



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; 25% 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 1995 are \$60 for professional members who elect to receive American Mineralogist and \$30 for those who elect not to receive the journal, but who do receive all other membership benefits; membership is \$30 for students. Membership is on a calendar year basis. Individuals who join after January 1, 1995 will be sent all back issues of the journal for volume 80, 1995.

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 1995 volume of American Mineralogist for the annual rate of \$260 in the US, \$270 in Canada and Mexico and \$280 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.

1995 President: James J. Papike  
University of New Mexico  
Past-President: Bernard W. Evans  
University of Washington  
Vice President: Gordon E. Brown, Jr.  
Stanford University  
Secretary: Stephen J. Guggenheim  
University of Illinois at Chicago  
Treasurer: Rosalind T. Helz  
U.S. Geological Survey  
Editor of *The Lattice*: Marta Flohr  
U.S. Geological Survey  
MSA Administrator: J. Alexander Speer  
Mineralogical Society of America  
1015 Eighteenth Street N.W., Suite 601  
Washington, D.C. 20036  
Telephone: (202) 775-4344  
FAX: (202) 775-0018



### New Lattice Editor

Darrell Henry has agreed to take over the responsibilities of editor of *The Lattice*, beginning with the November issue. Effective immediately, all items for the newsletter should be sent to:

Dr. Darrell J. Henry  
Department of Geology and Geophysics  
Louisiana State University  
Baton Rouge, LA 70803 USA

Telephone: 504-388-2693

Fax: 504-388-2302

E-mail: glhenr@lsuvax.sncc.lsu.edu

I would like to take this opportunity to thank all those who have helped with the newsletter over the last 5½ years, with a special thanks to Alex Speer, the MSA business office staff, and Susan Myers, our former office manager.

Marta Flohr

### THE MSA BUSINESS OFFICE HAS MOVED

The new address of the MSA  
business office is:

Mineralogical Society of America  
1015 Eighteenth St., NW, Suite 601  
Washington, DC 20036

The telephone and fax numbers remain the  
same:

Telephone: 202-775-4344

FAX: 202-775-0018

### Faster Delivery of the American Mineralogist

Members and subscribers far-removed from Kansas, where the *American Mineralogist* is printed and mailed, indicate that it can take up to 4 months by surface mail to receive their copy of the journal. MSA presently offers airmail delivery of the journal at \$150 per year, but few request this service. Several members suggested MSA investigate less expensive alternatives for faster delivery.

In the evolving and competitive world of mail delivery, the U. S. Postal Service has developed an International Surface Air Lift (ISAL). Mail is shipped as air freight to the destination country where individual items are then placed in the local regular surface mail stream. Allen Press, who print the *American Mineralogist*, participates in this service by what they call Allenair™. The goal is delivery time of 7-14 days. However, the experience of Allen Press is that journal delivery can take as little as a week to Europe and Japan but up to 35 days in some countries. The additional time reflects conditions of regular mail delivery in the destination country. Cost is on a country, weight, and piece basis. The service is offered to 125 countries:

Rate Group	countries
1 Europe	Albania, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Great Britain & N. Ireland, Greece, Hungary, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Macedonia, Netherlands, Norway, Poland, Portugal, Romania, Russia, San Marino, Slovenia, Slovakia, Spain, Sweden, Switzerland, Turkey, Yugoslavia
2 Western Hemisphere	Argentina, Aruba, Belize, Bolivia, Brazil, Chile, Columbia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, French Guiana, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad & Tobago, Uruguay, Venezuela
3 Pacific Rim	Australia, China, Fiji, Hong Kong, Indonesia, Japan, Republic of Korea, Malaysia, New Zealand, Papua New Guinea, Philippines, Singapore, Taiwan, Thailand
4 Africa & Asia	Algeria, Angola, Bahrain, Bangladesh, Benin, Burkia Feso, Burundi, Cameroon, Central African Republic, Congo, Cote d'Ivoire, Egypt, Ethiopia, Gabon, Ghana, India, Iran, Iraq, Israel, Jordan, Kenya, Kuwait, Lebanon, Liberia, Libya, Madagascar, Mail, Mauritania, Mauritius, Morocco, Mozambique, Niger, Nigeria, Oman, Pakistan, Qatar, Reunion, Rwanda, Saudi Arabia, Senegal, Sierra Leone, Somalia, South Africa, Sri Lanka, Sudan, Syria, Tanzania, Togo, Tunisia, Uganda, United Arab Emirates, Yemen, Zaire, Zambia, Zimbabwe.

Cost differences between rate groups is relatively small. In order to keep the cost of administering this service from overtaking the price of the actual mailing, and cover the anticipated rate change in 1996, the Society will offer this option starting for 1996 at a uniform cost of \$30 per year. This is \$5 for each issue. There is a minimum weight requirement of 50 pounds on each mailing by the Society. The lightest (weight, not content) recent issue of the *American Mineralogist* indicates at least 70 members and subscribers must request the service in order for MSA to participate. If you would like faster delivery of the *American Mineralogist*, please consider requesting ISAL (Allenair™) Service on your renewal form for 1996 which will be sent to you around November, 1995.

## MSA ACTIVITIES AT GSA - NOVEMBER 5-9, 1995

Each year MSA and other associated societies of the Geological Society of America (GSA) work together prior to the annual meeting to review and select abstracts and schedule symposia and poster sessions. It is the combined efforts of these individuals that consistently produce a quality meeting. Special thanks are due this year to MSA representative Raymond Joesten, conferee Lawrence M. Anovitz, and abstractor Tamsin McCormick.

In addition to handling the review of abstracts and scheduling technical sessions, the MSA representative coordinates with the Business Office to schedule the Society's social activities. This cooperation, in conjunction with GSA staff, keeps Society activities from overlapping technical sessions and attempts to put these activities in conveniently located meeting rooms.

While this scheduling involves many individuals, its purpose is to benefit the members of MSA. To this end, you are encouraged to participate in the MSA sponsored activities and to express your suggestions and needs to the Business Office and GSA.

### MSA Booth

*Sunday, November 5*

5:00 p.m. - 8:00 p.m.

*Monday, November 6*

9:00 a.m. - 5:00 p.m.

*Tuesday, November 7*

9:00 a.m. - 5:00 p.m.

*Wednesday, November 8*

9:00 a.m. - 4:00 p.m.

Be sure to visit the MSA booth at the Ernest N. Morial Convention Center. Volumes in the *Reviews in Mineralogy* series and other publications will be available at the booth. Stop by and meet the staff of the MSA business office and the *American Mineralogist* editorial office.

### Third Meeting of the 1995 Council

*Sunday, November 5*

8:30 a.m. - 5:00 p.m.

The 1995 Council will act on recommendations from the Nominating Committee for Officers, the Nominating Committee for Fellows, the Roebling Medal Committee, the MSA Award Committee, and the

Research Grant Committee at its final meeting. The report of the Tellers Committee will also be certified. Council actions will be announced at the Business Meeting on Tuesday, November 7.

### First Meeting of the 1996 Council

*Sunday, November 5*

6:30 - 9:00 p.m.

Members of the 1996 Council will hold a meeting to set goals and priorities for the coming year.

### MSA Past-Presidents' Breakfast

*Monday, November 6*

7:30 a.m. - 9:30 a.m.

(check meeting schedule for location)

### Presidential Address

#### Annual Business Meeting

*Tuesday, November 7*

10:30 a.m. - 11:45 a.m.

(check meeting schedule for location)

MSA President James J. Papike will give his presidential address, *Peroxene as a Recorder of Cumulate Formational Processes; Asteroids, Moon, Mars, Earth: Reading the Record with the Ion Microprobe*, beginning at 10:30 a.m. The address will be followed by an open business meeting. MSA bylaws require that such a meeting be held annually whereby the membership is provided reports by the officers to familiarize themselves with Society activities. All members are encouraged to attend.

### Annual Awards Luncheon

*Tuesday, November 7*

12:15 p.m. - 2:00 p.m.

(check meeting schedule for location)

William S. Fyfe, recipient of the 1995 Roebling Medal, and Zachary Sharp, recipient of the MSA Award for 1995, will be honored at this annual luncheon. Following these presentations, 1994 President James J. Papike will pass the gavel to the 1996 President and a new Council will take office. The Annual Luncheon provides members with an opportunity to meet colleagues and to recognize outstanding contributors to the science.

### MSA Reception

*Tuesday, November 7*

5:30 - 7:30 p.m.

(check meeting schedule for location)

All MSA members and scientists interested in mineralogy, petrology, and crystallography are invited to attend and enjoy this time to socialize with colleagues. As in previous years the reception will be held jointly with the Geochemical Society, which is celebrating its 40th anniversary.

### Associate Editors Lunch

*Wednesday, November 8*

12:15 - 2:00 p.m.

(check meeting schedule for location)

### Symposium and Theme Sessions

Two sessions that complement the MSA short course *Chemical Weathering Rates of Silicate Minerals* will be convened by A. White and S. Brantley. The MSA-sponsored symposium, *Weathering Rates of Silicate Minerals*, will be held on Monday morning, November 6; the theme session *Weathering of Silicate Minerals*, will be held on Monday afternoon.

A theme session on *Environmental Geology Across the Curriculum* will be held on Wednesday, November 8. There will be a morning oral session and an afternoon poster session. Topics covered include natural resources, natural and anthropogenic hazards, and public policy issues, with examples of applications in diverse educational settings such as K-12, multidisciplinary courses, introductory and "core" geology courses, and public service activities. The session will be convened by D. Mogk, S. Semken, and H. MacDonald.

### GSA CONTINUING

#### EDUCATION COURSES AT GSA

Courses offered include: (one-day courses) *Contaminant Organic Geochemistry*, *Coastal Land Loss*, *Essentials of Subsurface Mapping*, *GIS and the Geosciences*, *Geomorphic Applications of In Situ-Produced Cosmogenic Isotopes*, *Hydrogeology and Geochemistry of Wetlands*; (two-day courses) *Introduction to Experimental Modeling of Tectonic* (cont. on p. 17)



## WELCOME!

The following new members and students have joined MSA. An application for membership appears elsewhere in *The Lattice* or may be obtained from the MSA Business Office, 1015 Eighteenth Street, N.W., Suite 601, Washington, DC 20036.

**Agresti, David A.**, Department of Physics, University of Alabama-Birmingham, Birmingham, AL 35294-1170, USA. O: 205-934-8032. F: 205-934-8036. E-mail: [agresti@phy.uab.edu](mailto:agresti@phy.uab.edu) (M-95)MI GE CM EM (extraterrestrial minerals). Sponsor: MSA.

**Ague, Jay J.**, Department of Geology and Geophysics, Yale University, P.O. Box 208109, New Haven, CT 06520-8109, USA. O: 203-432-3171. F: 203-432-3134. (M-95)MP GE. Sponsor: Brian J. Skinner and Antonio C. Lasaga.

**Ambers, Rebecca K. R.**, 401 12th Avenue, SE, #156, Norman, OK 73071, USA. O: 405-325-3253. (SP-95)IP GE. Sponsor: Clifford P. Ambers and David London.

**Bard, Gary G.**, Taylor University, 1025 W. Rudisill Blvd., Ft. Wayne, IN 46807, USA. O: 219-456-2111. F: 219-456-2119. (M-95)MI CC. Sponsors: Scott Argast and MSA.

**Carrilho Lopes, Jose Manuel**, Dep. Geociencias, Univ. Evora, Apartado 94, Evora, Portugal. O: 351-66-744616 ext. 325. F: 351-66-744971. (ST-95)IP GE. Sponsor: MSA.

**Davies, Alastair**, Department of Geology, University of Bristol, Queens Road, Bristol BS8 1RJ, United Kingdom. O: 44-0117-928-9000 ext 4798. F: 44-0117-925-3385. (ST-95)IP PE. Sponsors: George Helffrich and Dave Sherman.

**de Graaff, Jeroen W. M.**, Department of Geochemistry, P.O. Box 80021, Utrecht 3508 TA, The Netherlands. O: 31-30-535409. F: 31-31-535030. (M-95)MI GE. Sponsor:

MSA.

**Debuhr, Christopher L.**, Department of Geology, University of Calgary, Calgary, AB T2N 1N4, Canada. O: 403-220-8016. F: 403-284-0074. (ST-95)MP GE. Sponsors: Terence M. Gordon and Mavis Z. Stout.

**Dooley, Debra F.**, 297 Milledge Circle, Athens, GA 30606, USA. O: 706-542-2394. F: 706-542-2425. (ST-95)GE PE. Sponsors: James A. Whitney and Alberto E. Patino Douce.

**Dupree, Ray**, Physics Department, University of Warwick, Coventry CV4 7AL, United Kingdom. O: 44-1203-523403. F: 44-1203-692016. (M-95)MI CC. Sponsor: MSA.

**Gupta, Subodh C.**, Ceramic Book and Literature Service, 119 Brentwood St., Marietta, OH 45750, USA. O: 614-374-9458. F: 614-373-2138. (M-95)MI CC. Sponsor: MSA.

**Haywick, Douglas W.**, Department of Geology, University of South Alabama, Mobile, AL 36688, USA. O: 334-460-6381. F: 334-460-7357. (M-95)CC SP. Sponsor: MSA.

**Koch, Mario**, Birkenweg 49, D-69469 Weinheim, Germany. O: 49-6201-67289. F: 49-6201-65866. (ST-95)IP MP. Sponsors: Alan Woodland and Rainer Altherr.

**Koretsky, Carla**, Department of Earth and Planetary Sciences, The John Hopkins University, 34th & Charles St., Baltimore, MD 21218, USA. O: 410-472-2043. (ST-95)CC GE. Sponsor: MSA.

**McBride, Jannene S.**, Department of Earth Sciences, Monash University, Clayton, Melbourne, Victoria 3168, Australia. O: 03-9905-1481. F: 03-9905-4903. (ST-95). Sponsor: MSA.

**Minor, David**, Department of Geosciences, University of Michigan, 2534 C. C. Little Bldg., Ann Arbor, MI 48108, USA. O: 313-994-3667. (ST-95). Sponsor: MSA.

**O'Donnell, Andrew**, 4th Floor, 708 Third Avenue, New York, NY 10017, USA. O: 212-661-3500. F: 212-599-2192. (M-95)MI. Sponsor: MSA.

**Sankey, Otto F.**, Department of Physics, Arizona State University, Tempe, AZ 85287. O: 602-965-4334. F: 602-965-7954. (M-95)MI CC GE PE CM. Sponsor: MSA.

**Sickafus, Kurt E.**, Los Alamos National Laboratory, K762, Los Alamos, NM 87545, USA. O: 505-665-3457. F: 505-665-3935. (M-95)MI CC. Sponsors: Jeremy N. Mitchell and Reid F. Cooper.

**Sobolev, Nikolay V.**, Institute of Mineralogy and Petrography, Russian Academy of Sciences - Siberian Branch, Novosibirsk 630090, Russia. O: 383-2-356-552. F: 383-2-352-692. E-mail: [eclogite@diamond.nsk.su](mailto:eclogite@diamond.nsk.su) (M-95)MI IP MP GE PE EG. Sponsors: Francis R. Boyd and Charles T. Prewitt.

**Stewart, Keith H.**, P.O. Box 23973, Washington, DC 20026, USA. O: 202-488-8357 and 703-706-0527. (ST-95)MI EG. Sponsor: MSA.

**Vahedi-Faridi, Ardeschir**, 2719 N. Francisco, Chicago, IL 60647, USA. O: 312-292-9220. F: 312-292-9220. (ST-95)CC CM. Sponsor: Stephen Guggenheim and MSA.

**Withers, A. C.**, Department of Geology, University of Bristol, Willis Memorial, Queens Road, Bristol BS8 1RJ, United Kingdom. O: 44-117-9289000 ext. 4145. F: 44-117-9253385. (ST-95)MI CC. Sponsors: David M. Sherman and George Helffrich.

## Correction

**Duza-Moore, Anna Maria**, 101 Penny Hall, Department of Geology, University of Delaware, Newark, DE 19716, USA. O: (302)369-0119. F: (302)831-1819. (ST-95)MI MP PE EG. Sponsors: Peter B. Leavens and Robert E. Jenkins II.

## MSA Short Courses

### CHEMICAL WEATHERING RATES OF SILICATE MINERALS

**Dates:** November 4-5, 1995 (preceding GSA meeting)  
**Location:** French Quarter, New Orleans, Louisiana  
**Conveners:** Art White, U.S. Geological Survey, Water Resources Division, MS 420, 345 Middlefield Road, Menlo Park, CA 94025;  
Susan Brantley, Pennsylvania State University, College of Earth and Mineral Sciences, 209 Deike Bldg., University Park, PA 16802

The principal purpose of the course is to present a broad interdisciplinary review of silicate weathering processes and to identify avenues of future research. Presentations will include theoretical, experimental, and field aspects of chemical weathering. Discussion sessions involving all participants will focus on aspects of integration between theoretical approaches and experimental measurements, between laboratory rates and field estimates, and between chemical and physical weathering at the soil, watershed, and continental scales.

The Short Course will be held at the Bourbon Orleans Hotel in the heart of the French Quarter in New Orleans. See the Short Course registration form on p. 8 for details.

The MSA Short Course will be held in conjunction with a GSA Symposium and a Theme Session on chemical weathering.

#### *Topics and Speakers/Authors:*

1. FUNDAMENTAL APPROACHES IN DESCRIBING SILICATE DISSOLUTION AND PRECIPITATION-Antonio Lasaga, *Yale University*
2. MINERAL DISSOLUTION AS A LIGAND-EXCHANGE REACTION-William Casey, *Univ. of California, Davis*
3. DISSOLUTION KINETICS OF SILICA-Patricia Dove, *Georgia Institute of Technology*
4. DISSOLUTION KINETICS OF FELDSPARS - Alex Blum, *U.S. Geological Survey*, and Lisa Stillings, *Univ. of Wyoming*
5. CHEMICAL WEATHERING RATES OF PYROXENES AND AMPHIBOLES-Susan Brantley, *Pennsylvania State University*
6. DISSOLUTION AND GROWTH KINETICS OF SHEET SILICATES-Kathy Nagy, *Sandia National Laboratory*
7. SILICATE WEATHERING IN NATURE: A MICROSCOPIC PERSPECTIVE Michael Hochella, *Virginia Polytechnical Institute and Jillian Banfield, Univ. of Wisconsin*
8. INTEGRATION OF LABORATORY AND FIELD KINETIC DATA FOR SILICATES-Herald Sverdrup, *Lund University*
9. SILICATE WEATHERING RATES IN SOILS-Art White, *U. S. Geological Survey*
10. SILICATE WEATHERING RATES IN WATERSHEDS-James Drever, *Univ. of Wyoming*
11. CONNECTING PHYSICAL AND CHEMICAL WEATHERING-Robert Stallard, *U. S. Geological Survey*
12. CHEMICAL WEATHERING AND ATMOSPHERIC CO<sub>2</sub> ON A MULTIMILLION YEAR TIME SCALE-Robert Berner, *Yale University*

## STRUCTURE, DYNAMICS, AND PROPERTIES OF SILICATE MELTS

**Dates:** December 9-10, 1995 (preceding AGU meeting)  
**Location:** Stanford University (30 miles south of San Francisco, California)

#### *Conveners:*

D.B. Dingwell, Bayerisches Geoinstitut, Universitat Bayreuth, 95440 Bayreuth, Germany;  
don.dingwell@uni-bayreuth.d400.de  
P.F. McMillan, Dept. of Chemistry, Arizona State University, Tempe, AZ 85287, USA;  
mcmillan@asu.chm.la.asu.edu  
J.F. Stebbins, Dept. of Geological and Environmental Sciences, Stanford University, Stanford, CA 94305, USA; stebbins@pangea.stanford.edu;  
phone: 415-723-1140; fax: 415-725-2199

Silicate melts are the essential phase of all magmatic processes. As such, melts play a key role in the chemical and physical differentiation of the Earth and terrestrial planets, as well as in more local phenomena of volcanism, plutonism, and heat and mass transfer in the crust and mantle. Equally important to this field has been the impetus provided by the use of silicate liquids and glasses in various industries. The past ten years have witnessed a tremendous growth of the literature on the structure, properties, and dynamics of silicate melts, stimulated by a number of breakthroughs in fundamental understanding.

This short course will attempt to bring these new results and approaches to students and other researchers in the earth and the materials sciences. Emphasis will be placed on new findings from high T studies of liquids, on the dynamical processes that distinguish liquids from glasses, and the links between thermodynamic and transport properties.

**Course details:** See the registration form on p. 9 for details on fees. Participants must contact a hotel or motel of their choice to reserve and pay for rooms. Blocks of rooms have been reserved at the following. Rates are subject to change, and are cost per room not including tax. Please contact J. Stebbins if you have any problems with travel or accommodations.

Holiday Inn: 415-328-2800, fax 415-327-7362  
\$98 (single occ.) \$108 (double occ.)  
El Rancho Palo Alto Motel: 415-493-2760, fax 415-494-7833  
\$40 (single or double occ.)  
Palo Alto Oaks Motel: 415-493-6644, fax 415-493-3593  
\$46 (single or double occ.)

#### *Topics and Speakers/Authors:*

C.A. Angell (Arizona State University): Phenomenology of strong and fragile liquids and the glass transition  
G.E. Brown (Stanford University), G. Calas, F. Farges (University of Paris): X-ray scattering and spectroscopic studies of silicate liquids  
S. Chakraborty (Universitat Koeln): Diffusion in silicate liquids

(continued on next page)

*Structure, Dynamics, and Properties of Silicate Melts*  
(continued from preceding page)

**MSA PEGMATITE INTEREST GROUP (PIG)**  
**Upcoming Activities**

- . Dickinson (Corning, Inc.): Oxide glasses and melts: technological perspectives
- D.B. Dingwell (Bayerisches Geoinstitut): Rheology and relaxation in melts
- P. Hess (Brown University): Thermodynamic mixing properties and the structure of silicate melts
- P.F. McMillan and G.H. Wolf (Arizona State University): Vibrational studies of silicate liquids
- C. T. Moynihan (R.P.I.): Structural, electrical relaxation, and the glass transition
- A. Navrotsky (Princeton University): Energetics of silicate melts
- P. H. Poole (Dalhousie University), G.H. Wolf, and P.F. McMillan (Arizona State University): Computer simulations of melts
- P. Richet, Y. Bottinga (University of Paris): Configurational entropy and viscosity of silicate melts
- J.F. Stebbins (Stanford University): Dynamics and structure of silicate melts: nuclear magnetic resonance studies
- S. Webb and D.B. Dingwell (Bayerisches Geoinstitut): Anelasticity
- G.H. Wolf and P.F. McMillan (Arizona State University): Pressure effects on melt structure and dynamics

**AGU Session on the *Structure, Dynamics, and Properties of Silicate Melts***

A special session on the *Structure, Dynamics and Properties of Silicate Melts* will be convened by Jonathan Stebbins, Paul McMillan, and Don Dingwell at the Fall AGU meeting (December 11-15, San Francisco). This session will complement the MSA short course described above.

**CLEANING OUT?**

Do you save most things that come your way? Are family, friends, and colleagues desperate for you to consolidate? Wondering where there might be a good home for the things you have collected so carefully? The MSA business office is interested in obtaining reference copies of early MSA publications. Needed items include Special Paper #2 (on amphiboles and pyroxenes), *Sulfide Mineralogy Short Course Notes* (first printing, yellow cover); *Reviews in Mineralogy* v. 5, *Orthosilicates*, (second edition, 1982); *The American Mineralogist*, volumes 1-32 (1916-1947). MSA is also interested in acquiring any Society-related items from before 1970: ballots, directories, *American Mineralogist* Indices, committee reports, etc. Please tell us what you have, we may not even have known it existed! MSA would like to locate its original (1937) MSA corporate seal (last known impression from it was in 1982), and original artwork for the MSA logo(s).

**Fall 1995**

**New England Intercollegiate Geological Conference, Bowdoin College, Brunswick, Maine USA, October 6-8, 1995 - Field trips in southern Maine:**

- Friday, October 6: Trip A-8, Collector's Trip: Berry-Havey Quarry, Poland, Maine (Van King, leader)
- Saturday, October 7: Trip B-6, Petrology of the Sebago batholith and related pegmatites (Michael Wise, leader)
- Sunday, October 8: Trip C-4, Geochemistry and petrology of the Permian pegmatites and granite in the Topsham-Brunswick area (Paul Tomascak and Carl Francis, leaders)

*For information on registration and accommodations contact:*

NEIGC 95 c/o Peter Lea	Arthur M. Hussey II
Department of Geology	(207) 725-3219
Bowdoin College	ahussey@polar.bowdoin.edu
Brunswick, Maine 04011	

**Spring 1996**

**GAC-MAC Joint Annual Meeting, Winnipeg, Manitoba, Canada, May 27-28, 1996**

**MAC Symposium: Mineralogy and Geochemistry of Granitic Pegmatites** (honoring the impact of Petr Cerny on granitic pegmatite research) (S. Ercit, A. Anderson, and L. Groat, organizers)

**Field trip A3: Petrology and Mineralization of the Tanco Rare-element Pegmatite, Southeastern Manitoba** (P. Cerny, S. Ercit, and P. Vanstone, leaders)

*For information on registration, contact:*

Ian Ferguson  
Department of Geological Sciences  
University of Manitoba  
Winnipeg, Manitoba  
Canada R3T 2N2

(204) 474-7343  
wpg\_gacmac@umanitoba.ca

*Please send other announcements or notices of PIG-related activities to:*

David London  
School of Geology & Geophysics  
University of Oklahoma  
100 East Boyd Street, SEC 810  
Norman, OK 73019 USA

(405) 325-3253  
dlondon@uoknor.edu



## Registration Form

### MSA Short Course Chemical Weathering Rates of Silicate Minerals November 4-5, 1995

Complete and return this registration form to the MSA Business Office, 1015 Eighteenth Street, N.W., Suite 601, Washington, D.C. 20036. Telephone: 202-775-4344. FAX: 202-775-0018. Please type or print. Use one form per registrant. Payment must accompany this form. Registration is limited to 100 individuals on a first-come, first-served basis. A full refund of registrations fees will be made to any participant who cancels prior to October 1, 1995. Between October 1 and 13, 1995 cancellation will incur a charge of \$25. No refunds will be made after October 13, 1995.

Name \_\_\_\_\_  
(first) (middle initial) (last)

Address \_\_\_\_\_

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

Telephone: (Voice) \_\_\_\_\_ (FAX) \_\_\_\_\_

E-mail \_\_\_\_\_

Please circle the appropriate registration category(ies):

Pre-registration due July 12, 1995

*Researcher* 75.00

*Student* 75.00

Balance due from Pre-registrants by October 1, 1995

*Researcher* 225.00

*Student* 175.00

Costs if no pre-registration fee received by July 12, 1995

*Researcher* 350.00

*Student* 300.00

Fees are for double occupancy at the Bourbon Orleans Hotel and includes breakfast and a banquet\*.

☐ I will share a room with: \_\_\_\_\_

☐ I am willing to share a room with any other registrant

☐ I would like a single occupancy room available at an additional fee of \$145.00 145.00

Total Due \_\_\_\_\_

Please indicate method and amount of payment:

\_\_\_\_ Enclosed is a check or money order in the amount of \$ \_\_\_\_\_

\_\_\_\_ 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 Structure, Dynamics, and Properties of Silicate Melts December 9-10, 1995

Complete and return this registration form to the MSA Business Office, 1015 Eighteenth Street, N.W., Suite 601, Washington, D.C. 20036. Telephone: 202-775-4344. FAX: 202-775-0018. Please type or print. Use one form per registrant. Payment must accompany this form. Registration is limited to 100 people on a first-come, first-served basis. A deposit payment of \$75 must accompany this form, which will be fully refunded if cancellation is received in writing prior to November 20, 1995.

Name \_\_\_\_\_  
(first) (middle initial) (last)

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(city) (state) (zip/postal code) (province) (country)

Telephone: (Voice) \_\_\_\_\_ (FAX) \_\_\_\_\_

E-mail \_\_\_\_\_

Pre-registration deadline (\$75 deposit) is September 15, 1995. Final payment is due November 20, 1995.

Registration fee includes reception on December 8, breakfast and lunch on December 9 and 10, *Reviews in Mineralogy* volume, and conference costs. The evening banquet on Saturday night, December 9, is optional. Fee does not include room, other dinners, or transportation costs to or from the Stanford area. Blocks of rooms have been reserved as listed in the accompanying course description. Participants must contact the hotel or motel of their choice to make reservations and pay for rooms. Information on transfers to and from San Francisco Airport and San Francisco (AGU) will be sent to conferees.

			cost
[1] Deposit (required of all registrants)			\$75.00
[2] Registration. Please circle the appropriate registration category:			
Professional Registration in addition to \$75 deposit:	before 9/15/95	after 9/15/95	
Member	\$185	\$235	_____
Non-member	\$245*	\$295*	_____
Student Registration in addition to \$75 deposit:	before 9/15/95	after 9/15/95	
Member	\$130	\$170	_____
Non-member	\$160*	\$200*	_____
* includes MSA membership dues of 1996.			
[3] Banquet (optional, \$30.00, Saturday evening, December 9)			_____
Please list any special requirements regarding meals.			_____

Total Due \_\_\_\_\_

Please indicate method and amount of payment:

\_\_\_\_\_ Enclosed is a check or money order in the amount of \$ \_\_\_\_\_

\_\_\_\_\_ 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)

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[Editor's note: The Report of the Secretary for 1994 and the Report of the Editors of *American Mineralogist* for 1994 were published in the May *Lattice*. The Report of the Treasurer for 1994, the Report of the Financial Advisory Committee for 1994, and the list of Reviewers of Manuscripts for 1994 for *American Mineralogist* follow.]

## PROCEEDINGS OF THE SEVENTY-FIFTH ANNUAL MEETING OF THE MINERALOGICAL SOCIETY OF AMERICA IN SEATTLE, WASHINGTON

### REPORT OF THE TREASURER FOR 1994

This report summarizes the financial activity of the Mineralogical Society of America for the calendar year 1994. The financial statements have been audited by Rubino & McGeehin, Chartered Certified Public Accountants of Bethesda, 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 summary numbers from 1993 for comparison. As of the end of 1994, there was a negative balance of \$32,256 in the General Operating Fund, which was more than offset by a positive balance of \$1,010,782 in the Reserve (Endowment) Fund. In addition to the Reserve fund, the Society has two smaller restricted-purpose funds: the Edward H. Kraus Crystallographic Research Fund, which had a balance of \$61,673 and the Mineralogy/Petrology Fund, which had a balance of \$95,633. The value shown for the Reserve fund increased by \$145,976, that for the Edward H. Kraus Crystallographic Research Fund by \$4029, and that for the Mineralogy and Petrology Fund by \$11,983. All securities in the various funds were evaluated by the auditors on both a cost basis and on the basis of market value as of 12/31/94. The figures in Table 1 use the cost basis, as the lower of the two, and represent a conservative estimate of the Society's financial status. Table 1 shows that the cost basis value of the Society's investments has increased \$162,088 since the end of 1993.

Some caveats are in order in comparing the 1994 numbers with 1993 numbers. Since the end of 1993, MSA has extensively restructured the Society's investment portfolio. This was done in accordance with a plan developed by Dave Hewitt, Chair of the Financial Management Committee, and approved by the Council at the Fall Council meeting. The process was partly done by 12/31/94, and all transactions have taken place subsequently. The very large amount of cash in the General Operating Fund as of 12/31/94 (shown in Table 1) is a consequence of this partially consummated restructuring. This cash has subsequently been disbursed to new investment accounts, as approved by Council.

Also, another result of his restructuring is that our cost basis has risen, reflecting the higher acquisition price of the current portfolio. Even in the Kraus Fund and the Mineralogy and Petrology Funds, (neither of which was involved at all in the reinvestment activity), the cost basis is sharply up because of more active management policies on the part of the fund managers at Fidelity Equity-Income. The increase in cost basis seen in Table 1 does not imply great success in the stock market in 1994, though it does reflect the accumulated successes of earlier years.

### Breakdown by funds

The Society has four funds. The General Operating Fund, which encompasses all aspects of the Society's operations, closed 1994 with a balance of negative \$32,256 (Table 1). There was an operating surplus of \$10,181 in 1994, corresponding to 1.67% of the total budget of the Society in 1994. The negative balance carried in the General Operating Fund, which reflects operating deficits in 1990 and earlier years, has been reduced somewhat in consequence.

The Society's Reserve Fund, income from which provides support for Society operations and special projects, showed an increase of \$145,976, but this is entirely an increase in the cost basis of the portfolio, as discussed above. The market value of the Society's investments actually declined slightly during 1994, as noted in the report of the Financial Advisory Committee (also in this issue of *The Lattice*).

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 made an award of \$3500 in 1994; in spite of this, the value of the fund on a cost basis rose by \$4029 in 1994. The Mineralogy and Petrology Fund, which made no award in 1994, grew by \$11,983, on a cost basis, during 1994.

### Discussion

The Society's financial performance in 1994 was better than anticipated in the original budget. That budget projected a deficit of \$21,350 for the year, whereas the actual outcome was a profit of \$10,181. One factor involved was decreased material and production costs of the *American Mineralogist*, reflecting the Society's new, more favorable contract with Allen Press. The new contract, which was approved by the Council at the May 1994 meeting, has had a major effect on the 1994 outcome because Allen Press made it retroactive to the beginning of 1994. Also, sales of Frank Spear's monograph on metamorphism continued to be very strong. Profits from the monograph were \$42,920 in 1994, and have been split 50-50 with Frank Spear, under the terms of the Society's contract with him.

As in 1993, income from dues and subscriptions was almost exactly as projected, as the Society continued to hold onto both members and institutional subscribers. The outlook for 1995 suggests that, barring renewed attrition of members and subscribers, the Society should be able to absorb the costs associated with moving the Business Office, and acquiring a new computer system for that office, without running deeply in the red.



**Table 1. Mineralogical Society of America Balance Sheets For the Year Ended December 31, 1994 (with Comparative Totals for 1993)**

	Unrestricted			Restricted			1994 Total	1993 Total
	General Operating Fund	Reserve Fund	Total	Edward H. Kraus Crystallographic Research Fund	Mineralogy/ Petrology Fund	Total		
<b>Assets</b>								
Cash	\$255,381	\$ —	\$255,381	\$ —	\$ —	\$ —	\$255,381	\$161,080
Investments	—	1,009,130	1,009,130	63,837	91,371	155,208	1,164,338	1,015,861
Accounts Receivable	39,990	—	39,990	—	—	—	39,990	16,807
Prepaid Expenses and Deposits	9,302	—	9,302	—	—	—	9,302	15,858
Interfund Borrowings	(3,750)	1,652	(2,098)	(2,164)	4,262	2,098	-0-	—
Furniture & equipment net of \$66,013 accumulated depreciation	10,250	—	10,250	—	—	—	10,250	12,335
<b>Total Assets</b>	<b>\$311,173</b>	<b>\$1,010,782</b>	<b>\$1,321,955</b>	<b>\$61,673</b>	<b>\$95,633</b>	<b>\$157,306</b>	<b>\$1,479,261</b>	<b>\$1,221,941</b>
<b>Liabilities and Net Assets</b>								
Accounts Payable and Accrued Expenses	\$63,965	\$ —	\$63,965	\$ —	\$ —	\$ —	\$63,965	\$50,274
Due to Other Publishers	9,048	—	9,048	—	—	—	9,048	20,185
Deferred Revenues								
Dues	46,471	—	46,471	—	—	—	46,471	66,900
Subscriptions	223,945	—	223,945	—	—	—	223,945	162,895
<b>Total Liabilities</b>	<b>343,429</b>	<b>—</b>	<b>343,429</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>343,429</b>	<b>300,254</b>
<b>Net Assets</b>	<b>(32,256)</b>	<b>1,010,782</b>	<b>978,526</b>	<b>61,673</b>	<b>95,633</b>	<b>157,306</b>	<b>1,135,832</b>	<b>921,687</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 311,173</b>	<b>\$1,010,782</b>	<b>\$1,321,955</b>	<b>\$61,673</b>	<b>\$95,633</b>	<b>\$157,306</b>	<b>\$1,479,261</b>	<b>\$1,221,941</b>

## Summary

In 1994 the Mineralogical Society of America had a good year, in spite of the weak stock market and the resignation of our long-time Office Manager, Susan Myers in mid-year. The new contract with Allen Press, the successful Spear book, and above all, a second year with no losses in members or subscribers, have put the Society in shape to deal with coming changes in the Business Office and at the *American Mineralogist*, as the Society moves ahead with the computerization and consolidation of those operations.

ROSALIND TUTHILL HELZ

## REPORT OF THE FINANCIAL ADVISORY COMMITTEE FOR 1994

The Mineralogical Society of America's endowment is divided into three funds. The largest of these, the Endowment Fund, is for unrestricted use authorized by the MSA Council, and the other two smaller funds, the Mineralogy/Petrology and the Kraus Crystallography Fund, are restricted for providing financial assistance toward future research in their respective fields. This report summarizes the fiscal year financial history of those funds.

During 1994 the MSA Council approved a recommendation from the Financial Advisory Committee to restructure the Endowment Fund. That restructuring increased the number of equity mutual funds from two to five and added diversity to the nature of the funds. Initially the Endowment equity funds would consist of \$200,000 each in Brandywine Fund, Fidelity Equity Income II Fund, Fidelity Magellan Fund, Lindner Dividend Fund and Reich & Tang Equity Fund. The transition to the new structure was begun in December 1994, but was not completed until the first quarter of 1995 causing the Endowment Fund to be heavily weighted towards cash at the close of the year. At that time the Society's Endowment Fund was invested in a \$40,000 U.S. Treasury Note, two mutual fund money market accounts, the Fidelity Magellan Fund and the Reich & Tang Equity Fund.

Expenses for the Endowment Fund in 1994 included \$17,090 for life member and AMU student dues, the Lectureship Program and the Public Service Award, and \$12,737 to cover the shortfall in the GOF for 1993. In addition a net \$33,477 was loaned to the GOF at the year's end to cover a cash flow shortage. Contributions to the Endowment Fund were \$8304 for the year.

No reallocations occurred in the two restricted funds for 1994. The Mineralogy/Petrology Fund and the Kraus Crystallography Fund are each 100% invested in separate Fidelity Equity Income Fund accounts.

Table 2 shows that the Society's Endowment lost money in 1994. The market value of the Endowment Fund decreased by nearly 7% while the market values of the Mineralogy/Petrology and Kraus Crystallography Funds each increased by .2%. The performance of the Society's investments closely matched the overall market averages, and most of the losses for the year can be attributed to the expenses already described with the remainder being the result of the extended restructuring transition period during which the market was registering modest gains.

**Table 2. Mineralogical Society of America Endowment**

	1994 Cost	1994 Market	1993 Cost	1993 Market
<b>Fund Type</b>				
Endowment	\$1,009,130	\$1,048,649	\$877,542	\$1,122,463
Loan to GOF		33,477		0
Mineralogy/Petrology	91,371	103,033	81,361	102,783
Kraus Crystallography	63,837	70,803	56,958	70,632
<b>Investment Type</b>				
U.S. Treasury Notes		40,000		40,000
Mutual Funds-Equities		595,121		1,076,999
Cash Equivalents		587,364		178,879
Loan to GOF		33,477		0

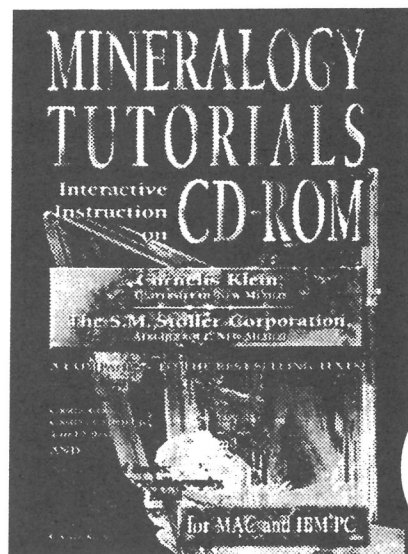
Respectfully submitted,

D. HEWITT, Chairman  
W. CARLSON, Chairman of the  
Management Committee  
R. T. HELZ, Treasurer  
C. GUIDOTTI  
D. RUMBLE

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Dai, Y.	(continued on p. 20)

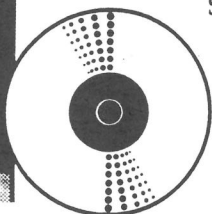
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Many members make contributions to MSA's Endowment and Mineralogy/Petrology Funds and the Edward H. Kraus Crystallography Research Fund each year. These Funds support MSA's biennial research grants in crystallography, mineralogy, and petrology publishing of the *American Mineralogist*; the *American Mineralogist* Undergraduate Awards; the Mineralogical Society of America Award; the Roebling Medal; and lectureship program. Contributions are usually included with the renewal notices returned in the fall. These contributions range from modest to generous. But it is the widespread and repeated nature of the contributions that are encouraging. They indicate interest by our members for the programs the Funds support. In 1994 \$6,056 was contributed to your Society. In 1995, \$5696 has been contributed as of July 1. If you have not done so previously, you might want to consider contributing at the next opportunity. Here we want to extend our gratitude to the following individuals:

### 1994 Contributors

Alviola, Reijo  
Anderson, Barbara J.  
Armbruster, Thomas  
Arima, Makoto  
Banfield, Jillian F.  
Barker, Daniel S.  
Barton, Mark D.  
Bassett, William A.  
Baumgartner, Lukas P.  
Beach, Richard A.  
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## IN MEMORIAM

We regret to announce the passing of the following MSA Fellows and Members. The Society extends its condolences to the families and friends of these scientists.

**Robert J. Came**  
April 27, 1994 - La Mesa, CA  
Member, 1957

**Kurt von Gehlen**  
May, 1995 - Konigstein, Germany  
Fellow, 1962

**Oleg von Knorring**  
Life Fellow, 1954

**Henry O. A. Meyer**  
June 15, 1995 - West Lafayette, IN  
Life Fellow, 1966

## Book Reviews of MSA Publications

Chencker, M.B., MD, 1995. Reviews in Mineralogy volume 28, Health Effects of Mineral Dusts. *Chest* (a Journal of the American College of Physicians) v. 107, no. 4, p. 21.

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## MEETING CALENDAR 1995-1998

### 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. Tel.: (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. Tel.: (301) 405-4082, Fax: (301) 314-9661.

#### September

- 4-8 **Third International Dyke Conference**, Jerusalem, Israel (Mineralogical research is most welcome). Organizing Committee (IDC-3), Geological Survey of Israel, 30 Malkhe Yisrael Street, Jerusalem 95501, Israel, Fax: 972-2-380688, e-mail: DIKECONF@VMS.GSI.GOV.IL; Dr Peter C. Rickwood (same e-mail address), Tel: International 61-2-3854264, Interstate 02-3854264 (Sec.x.4262), Fax: International 61-2-3855935, Interstate 02-3855935.

#### October

- 1-5 **American Institute of Professional Geologists 1995 Annual Meeting - Prosperity & Professional Geology**, Hyatt Regency Hotel, Denver. *Details:* Conference Associates, 1776 Lincoln St., Suite 620, Denver, CO 80203. Tel.: (303) 863-9506; Fax: (303) 863-9507.
- 1-7 **Association of Engineering Geologists Annual Meeting**, Hyatt Regency at Capitol Park, Sacramento, California. *Details:* AEG - (508) 443-4639.
- 9-13 **10th International Conference of the Geological Society of Africa**, Nairobi. With a Special Symposium dedicated to IGCP Project 314: *Alkaline and Carbonatitic Magmatism*. Post conference field excursion to Longonot and Suswa volcanoes, with a possible extension to Oldoinyo Lengai. *Details:* Abigail Church, Dept. of Mineralogy, The Natural History Museum, Cromwell Road, South Kensington, London, SW6 5BD, Great Britain. Tel.: 071 938 9385; Fax: 071 938 9268.

#### November

- 6-9 **Annual GSA/MSA Meeting**, New Orleans, Louisiana.

#### November-December

- 27-1 **Fall Meeting of the Materials Research Society**, Boston. *Details:* Materials Research Society, 9800 McKnight Road, Pittsburgh, PA 15237.; Tel.: (412) 367-3003; Fax: (412) 367-4373.

#### December

- 5-8 **Northwest Mining Association International Convention and Exposition**, Spokane, Washington. Short courses (December 4&5) on Risk Management, Strategic Environmental Management, Mining - Legal Trends, and other topics. *Details:* Northwest Mining Assoc., 10 N. Post, Ste. 414, Spokane, WA 99201-0772; Tel.: (509) 624-1158; Fax: (509) 623-1241.
- 11-15 **Fall AGU Meeting**, San Francisco, California. *Abstract deadline: September 6, 1995.*

### 1996

#### January

- 4-6 **Winter Meeting of the Mineralogical Society of Great Britain - Magmatic Processes 1996: Are the answers in the laboratory?**, Bristol University, *Details:* S. Sparks, Bristol University, Bristol, BS8 1RJ, UK. *Abstract deadline: September 30, 1995.*

#### April

- 8-12 **Spring Meeting of the Materials Research Society**, San Francisco, California. *Details:* Materials Research Society, 9800 McKnight Rd., Pittsburgh, PA 15237. Tel.: (412) 367-3003; Fax: (412) 367-4373; e-mail: info@mrs.org. *Abstract deadline: November 1, 1995.*
- 10-13 **EMPG-VI - "Sixth International Symposium of Experimental Mineralogy, Petrology, and Geochemistry."** *Details:* Organizing Committee, EMPG-VI, Bayerisches Geoinstitut, Universität Bayreuth, D-95440 Bayreuth, Germany. Telephone: +49-921-553700, Fax: +49-921-553769. First circulars will be distributed in March 1995, second circulars including registration forms in September 1995. *Registration and abstract deadline: December 1, 1995.*

- 21-26 **Hydrology and Hydrogeology of Urban and Urbanizing Areas**, The 57 Park Plaza Hotel, Boston, Massachusetts. American Institute of Hydrology. *Details:* Helen Klose, AIH, 3416 Univ. Ave. S.E., Minneapolis, MN 55414. Tel.: (612) 379-1030; Fax: (612) 379-0169; e-mail: AIHydro@aol.com

#### May

- 27-29 **Geological Association of Canada-Mineralogical Association of Canada, Joint Annual Meeting**, Winnipeg, Manitoba. *Details:* G.S. Clark, Dept. of Geological Sciences, University of Manitoba, Winnipeg, Manitoba R3T 2N2, Canada; Tel.: (204) 474-8857; Fax: (204) 261-7581.

(continued on next page)



## MEETING CALENDAR (continued)

1996

June

- 20 The Clay Minerals Society 33rd Annual Meeting, Gatlinburg, Tennessee, in the Great Smoky Mountains Headquarters - Park Vista Hotel. *Symposia:* Colloidal Transport in Geomedia, Clay Minerals in Relation to Environmental Restoration Programs. *Workshop:* The Isotope Geology of Clay minerals: From Isotope Crystal Chemistry to Petrogenesis. *Workshop Conveners:* Fred J. Longstaffe and T. Kurtis Kyser. *Details - General Chair:* Dr. S.Y. Lee, Environmental Sciences Division, Oak Ridge National Laboratory, P.O. Box 2008, Bldg. 1505, MS-6038, Oak Ridge, TN 37831-6038 USA. Tel.: (615) 574-6316. Fax: (615) 576-8646. E-mail: syl@ornl.gov.

September

- 22-27 Third USA/CIS Joint Conference on Environmental Hydrology and Hydrogeology, Water: Sustaining a Critical Resource, Tashkent, Uzbekistan. American Institute of Hydrology. *Details:* Helen Klose, AIH, 3416 Univ. Ave. S.E., Minneapolis, MN 55414. Tel.: (612) 379-1030; Fax: (612) 379-0169; e-mail: AIHydro@aol.com

1997

June

- 15-21 The 11th International Clay Conference and The 34th Annual Meeting of the Clay Minerals Society, in Ottawa. *Details:* Dr. Jeanne B. Percival, Secretary-General, 11th ICC, Geological Society of Canada, 601 Booth St., Ottawa, Ontario K1A 0E8, Canada. Fax: (613) 943-1286; E-mail: icc97@gsc.emr.ca.

1998

August

- 9-15 17th General Meeting of the International Mineralogical Association, Toronto, Canada. *Details:* A.J. Naldrett, Dept. of Geology, University of Toronto, Toronto, Canada M5S 3B1; Tel.: (416) 978-3030; Fax: (416) 978-3938; e-mail: ima98@quartz.geology.utoronto.ca

## GSA Courses (cont. from p. 4)

*Processes, Fundamentals of Project Management for Environmental Professionals, Introduction to Soil and Groundwater Remediation Techniques, Phase I Environmental Site Assessments, and Multidimensional Computer Visualization.*

The two-day courses will be held on Saturday and Sunday, November 4 and 5; one-day courses either Saturday or Sunday. Courses are open to GSA members and nonmembers. Registration is not required. However, if you only register for a course, you must pay a \$35 nonregistration fee.

*Details:* Edna A. Collins, Continuing Education Coordinator Geological Society of America  
Telephone: (303) 447-2020  
Fax: (303) 447-1133

## Women's Groups in Materials-Oriented Societies

The Materials Research Society (MRS) has started a group of "Women in MRS" that met for the first time at the Spring MRS in San Francisco. The MRS group is interested in contacts with women's groups in other technical societies with whom the group might be able to share information, exchange ideas, network, etc. For additional information, contact:

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AT&T Bell Laboratories  
600 Mountain Ave.  
Room 1D-151  
Murray Hill, NJ 07974-0636

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### Monographs

\_\_\_ Metamorphic Phase Equilibria and Pressure-Temperature-Time Paths, by F. S. Spear **\$45.00** (Shipping\*: **\$5.00**/copy)

### Textbooks

\_\_\_ Crystallography and Crystal Chemistry, Reprinted 1994, by F. Donald Bloss **\$30.00**

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 \_\_\_ Fiftieth Anniversary Symposia; Special paper number 3. **\$1.00**

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