The Lattice

Vol. 4, No. 1, February 1988

Members nominate outstanding students in mineralogy for Society's undergraduate award.

MSA members have again taken advantage of the Society's American Mineralogist Undergraduate (AMU) Award program to recognize 16 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 individual professors 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 the journal, for 1988.

MSA members, who are on the permanent (or tenure-track) faculty and whose department offers one or more courses in crystallography, mineralogy, or petrology, may nominate a student. One student may be nominated per department per year. The department must also be able to present the certificate during a departmental or university award program. MSA encourages, but does not require, departments to nominate juniors who will be seniors during the year that they receive the award.

The deadline for nominating students for 1989 is November 1. Please mark your calendars now 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), departmental address, year in school, interest area, MSA sponsor name, and the date and brief description of the award ceremony at which the certificate will be presented. The letter must be signed by the department chair. Send the letter to the MSA Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006.

In its fourth year, the AMU Awards have recognized 79 exceptional students in mineralogy programs throughout the U.S. and Canada. Many of these students have maintained a relationship with MSA as

current members or participants in its educational short courses.

The Society welcomes these exceptional students to the program's honor roll and wishes to thank the sponsors for enabling MSA to recognize these outstanding individuals.

Ms. Jessica Sunshine Brown University Sponsored by Jan Tullis

Ms. Martha L. Gerdes Bryn Mawr College Sponsored by William A. Crawford and Maria Luisa Crawford

Mr. Matthew Swanson Trinity University Sponsored by Diane R. Smith

Mr. Charles Normand University of Quebec at Montreal Sponsored by James Bourne

Mr. John Eiler The University of Iowa Sponsored by C. T. Foster

Mr. John H. Shaw University of Massachusetts at Amherst Sponsored by Howard W. Jaffe

Mr. Eric A. Draper University of Pittsburgh Sponsored by Alvin J. Cohen

Mr. Jon Ledford Powell Virginia Polytechnic Institute and State University Sponsored by David A. Hewitt, Paul H. Ribbe,

and F. Donald Bloss

Mr. Mark A. Willis

New Mexico Institute of Mining and Technology

Sponsored by Andrew R. Campbell

Mr. Alan King Pasadena City College Sponsored by Janet G. Hammond

Mr. Grant Douglas Holmstrom The University of Calgary Sponsored by Edward Ghent

Mr. Gregory James Holk Arizona State University Sponsored by James A. Tyburczy

Mr. Steven W. Myers University of Nebraska at Lincoln Sponsored by Samuel B. Treves

Ms. Denise Prendergast Louisiana State University Sponsored by Darrell J. Henry

Ms. Heather Douglas Queen's University Sponsored by R. C. Peterson

Mr. Robert Rohlfs Northwest Missouri State University Sponsored by Dwight Maxwell

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From the President

MSA and AGU open discussions

Many MSA members belong to several other professional associations. A third of MSA's membership, responding to a poll conducted last summer, said that most of them held memberships in two other professional associations. Sixteen other societies in all were named. However, AGU and/or GSA were far more popular than any others. Slightly more MSA members who responded to the poll belonged to AGU (35 percent) than to GSA (33 percent). Other popular associations (with more than 10 percent of the MSA respondents) were the Mineralogical Association of Canada and the Geochemical Society.

Membership in both MSA and AGU is far more common among MSA members under age 50 than is membership in both MSA and GSA. Analysis of membership in these two other organizations by age group shows that almost twice as many members under age 30 belong to AGU than GSA. In the MSA 31-40 age group, AGU members exceed GSA members by about 50 percent, and in the 41-50 age group, AGU members exceed GSA members by about 15 percent. These three age groups together represent about 71 percent of the MSA respondents; these groups also are by far the most successful in obtaining research grants. Only in age groups over 51 are GSA members more numerous than AGU members, and markedly so in the oldest groups.

Participation by MSA members in the spring and fall AGU meetings and GSA annual meetings in 1985 and 1986 was analyzed last summer by Executive Secretary Minich at my request. This was done by comparing our membership lists with names on AGU or GSA abstracts, and names on GSA pre-registration lists. These estimates of participation are only approximate for many reasons, including that not all abstracts submitted to GSA annual meetings are accepted, and many attend AGU without having submitted abstracts.

According to these estimates, about 30 percent of MSA's membership participated in at least one GSA annual meeting in either 1985 or 1986. About 21 percent had an abstract in one or more AGU meetings during 1985 or 1986. About 190 MSA members (approximately 9 percent of MSA's total membership) submitted abstracts only to AGU meetings, mostly to AGU's V, G and P or Tectonophysics sessions.

These independent sets of data confirm what many respondents to the poll wrote, or have said to me: MSA and AGU have many common scientific interests that should be further developed and coordinated. I agree, and believe these common interests might

most effectively be centered about AGU's spring meeting. MSA already offers a short course before this meeting, and the MSA Council holds its spring meeting near the time of the spring AGU meeting. This year's Goldschmidt Conference before the spring AGU was organized by the Geochemical Society and is cosponsored by MSA. This conference apparently will be well attended, although to some degree the sequential timing forces a choice on MSA members.

I have been encouraged by my first conversations with AGU officials, and I will have further discussions to explore the possibilities for greater cooperation at the spring AGU meeting. I will report to Council and to you, and will appreciate your advice.

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David B. Stewart 1988 President

MSA membership continues to grow

MSA continued to see an increase in the number of professional individuals joining the Society in 1987. By year end, the Society's roster listed 1914 dues-paying members and fellows. Student members, life members and fellows, affiliated life members and fellows, and spouse members enlarged the total Society membership to 2801 individuals. This is the highest level since

Several factors account for the increase in membership. Two hundred and sixty three individuals joined the Society last year compared to 200 in 1985, and 222 in 1986. A greater proportion of these individuals joined as professionals in 1987 than ever before. In addition, over 96 percent of the 1986 members renewed in 1987. This retention rate, more than anything else, is what has enabled the Society to grow.

The retention rate for student members, however, is not as good. Figures show that 31 percent of the student members in 1986 did not renew for 1987. The actual number of student members continues to grow however, as students account for more than 60 percent of the Society's new members each year.

See Members, page 6.

Changes for the American Mineralogist?

Over the past several months, the Publications Committee has received unsolicited suggestions from the membership regarding ways to attract the attention and support of a larger number of researchers in mineralogy and related fields. As it may not be generally recognized that possible changes for the American Mineralogist are under consideration, the Publications Committee now solicits proposals or discussion from

both readers or authors.

The proposals now under serious discussion include: 1) a "letter section" to address the issue of a relatively lengthy time from initial submittal to actual publication. Submittals to such a section would still undergo a review although it may go directly to a reviewer rather than to an Associate Editor first (or an Associate Editor may be the reviewer). "Letters" would have strict restrictions on length and numbers of figures/tables and the reviewer or Editor must concur with the need for the rapid response time. 2) A publicity campaign to attract additional authors. Because it is generally thought that mineral physicists and other earth materials researchers are not submitting manuscripts to the American Mineralogist, special attention will be given to this group, much as was done for the petrology group several years back. This campaign may take the form of "getting the word out" through letter writing or similar advertising or by the use of special issues or special sections. Many authors are not aware that our page costs are low (by a factor of almost 3) compared to AGU publications, or that the American Mineralogist goes to several thousand more libraries and subscribers than many competitive journals.

Some changes have been made including the use of higher quality paper to enhance figure reproduction. We hope to attract therefore, more electron microscopy

manuscripts.

We welcome additional comment so that all the issues are considered. Please direct comment within the next few weeks so that they may be discussed at the next Council meeting in May to Steve Guggenheim, MSA Publications Chairman, Department of Geological Sciences, University of Illinois at Chicago, P.O. Box 4348, Chicago, IL 60680.



The Lattice is published quarterly (February, May, August, November) by the Mineralogical Society of America. The newsletter 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 and the public.

Membership benefits include: the American Mineralogist, published bimonthly; 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 and the joint MSA/Geological Society of America annual meeting; participation in a Society that supports the many facets of mineralogy.

Dues for 1988 are \$40 for professional members; \$20 for students. Membership is on a calendar year basis. Individuals who join after January 1, 1987 will be sent all back issues of the journal for volume 72,

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 American Mineralogist for the annual rate of \$140. The subscription price includes any new volume 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.

Committee on Committees. [No

forms; contact committee chair

with name(s).]

1988 President: D. B. Stewart, U. S. Geological Survey

Past-President: P. H. Ribbe, Virginia Polytechnic Institute and State Univ

Vice-President: C. W. Burnham, Harvard University

Secretary: Maryellen Cameron, Miami University of Ohio

Treasurer: G. L. Nord, Jr., U.S. Geological Survey

Office Manager/Accountant: Susan L. Myers

Mineralogical Society of America 1625 I Street N.W., Suite 414 Washington, D.C. 20006 (202) 775-4344

MSA needs nominations and committee volunteers

As MSA continues to grow, member participation becomes more essential to the continuation and formation of programs that meet member needs. The best way to participate in Society activities is through committees. Please take a minute now to read the brief committee descriptions below and consider getting involved.

Involvement can take several forms: nominate a candidate for office or an award, volunteer to serve on a committee next year. or offer your name or that of a colleague as a possible candidate for office. It is through the involvement of individual members that the Society's programs develop to meet the needs of its members.

Nomination forms and additional information on all Society Committees are available from the MSA Business Office (1625 I Street N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344). Or, you may communicate with the appropriate committee chair.

The Society's three awards do not require MSA membership or U.S. citizenship.

Award/Office	Deadline	Committee Chair
Roebling Medal—The highest award given for eminence as represented by outstanding original research in mineralogy. [No form; contact committee chair with name(s).]	July 1	M. Charles Gilbert Dept of Energy Engineering & Geosciences —OBES MSG-236/GTN Washington, D.C. 20545 (301) 353-5822
Mineralogical Society of America (MSA) Award— Outstanding contribution prior to 35th birthday with 1989 awardee younger than 37 on January 1, 1988. [No form; contact committee chair with name(s).]	July 1	Robert M. Hazen Geophysical Laboratory 2801 Upton Street N.W. Washington, D.C. 20008 (202) 966-0334
Mineralogy/Petrology Research Grant—\$3500 for research proposal in mineralogy/ petrology from a scientist between 20 and 30 years of age. (Form required.)	August 1	Douglas Rumble III Geophysical Laboratory 2801 Upton Street N.W. Washington, D.C. 20008 (202) 966-0334
Fellowship—Society recognition of a member's significant scientific contributions. Nomination undertaken by one member with two members acting as co-sponsors. (Forms required.)	July 1	Richard V. Dietrich Central Michigan Univ Geology Department Mt. Pleasant, MI 48859 (517) 774-4498
Officers—Any member or fellow of the Society. One-year terms for president and vice-president; two-year terms for treasurer and secretary; three-year term for Councillors. [No form; contact committee chair with name(s).]	July 1	Cornelis Klein Univ of New Mexico Dept of Geology Albuquerque, NM 97131 (505) 277-4204
Committees—Any member or fellow of the Society. Terms usually from one to three years. In addition to above committees, Society has Management, Financial Advisory, Publications, External Awards and Medals, Short Course, Tellers, and	May 1	Charles W. Burnham Hoffman Lab. Harvard University 20 Oxford Street Cambridge, MA 02138 (617) 495-2484

Additional Details

The Society of Economic Paleontologists and Mineralogists announces its Fifth Annual Midyear Meeting, to be held in Columbus, OH, August 21-24, 1988. Walt Sweet, Department of Geology and Mineralogy, Ohio State University, will serve as general chairman of the local organizing committee. Further information, as it becomes available, can be obtained from Jeanne Couch, Meetings Coordinator, SEPM, P.O. Box 4756, Tulsa, OK 74159-0756; (918) 743-9765.

The Materials Research Society (MRS) will hold its first multi-symposia meeting May 30-June 3, 1988 at Sunshine City, Ikebukuro in Tokyo, Japan. The International Meeting on Advanced Materials will provide a forum for scientists from around the world, addressing materials playing key roles in present and prospective industrial advances. For more information, contact the U.S. Coordinator, R. P. H. Chang, Department of Materials

Society News

Mineralogical Society of Great Britain

The first Winter Conference of the Mineralogical Society of Great Britain was held in conjunction with the Royal Society of Chemistry at Aston University, Birmingham, December 16-18, 1987. Participants from 10 countries attended the Conference.

Keynote lecturers reviewed X-ray emission and photoelectron spectroscopy-D. S. Urch; EXAFS and XANES-G. Calas; electronic absorption spectroscopy—G. Amthauer; Raman and IR spectroscopy—D. M. Adams; Mossbauer spectroscopy-F. C. Hawthorne; and NMR spectroscopy-R. J. Kirkpatrick; highlighting recent applications of these techniques. The Mineralogical Society Hallimond Lecture was delivered by R. G. Burns on the subject of "Spectral Mineralogy of the Terrestrial Planets: Scanning their Surfaces Remotely." Another 40 contributions were presented in sessions on spectroscopy and clay mineralogy, and spectroscopic studies of glasses and melts, including a keynote address by C. M. B. Henderson entitled, "Spectroscopy in Pure and Applied Mineralogy," and a keynote lecture, "Vibrational and UV-visible Spectroscopies of Hydrothermal Fluids" by J. Dubessy.

Papers from the Conference will be published later this year in a special issue of the Mineralogical Magazine to be edited by D. J. Vaughan. The scene is set for the MSA Short Course, "Spectroscopic Methods in Mineralogy and Geology," to be held May 12-15, 1988.

University, The Technological Institute, Evanston, IL 60201-9990. The deadline for advance meeting registration is March 31, 1988.

Science and Engineering, Northwestern

A GSA Penrose Conference "The Origin and Evolution of Anorthosites and Associated Rocks" will be held August 14-19, 1988 at the Diamond Guest Ranch, Chugwater, Wyoming. The conference will involve three days of meetings interspersed with two one-day field trips to the Laramie Anorthosite Complex. The purpose of the conference is to bring together petrologists and geochemists who are interested in the problems associated with anorthosite complexes and to explore the advances that have been made in the past 20 years on the petrology, geochemistry, and isotopic composition of these complexes. Prospective participants should contact B. Ronald Frost, Department of Geology and Geophysics,

In Memoriam

We regret to announce the passing of the following MSA members and fellows. The Society extends its condolences to the family and friends of these scientists.

Allen, Victor T. Life Fellow, 1926

Andrew, Gerald Life Member, 1931

Bird, Frederic V. G. Member, 1985

Eugster, Hans P. Life Fellow, 1969 Roebling Medalist, 1983 President, 1985

Fainberg, Arnold Member, 1971

Misch, Peter Fellow, 1958

Scheid, Vernon E. Life Member, 1945

Singewald, Quentin D. Life Fellow, 1937 P.O. Box 3006, University of Wyoming, Laramie, WY 82071; (307) 766-4290. Frost, Donald H. Lindsley, State University of New York at Stony Brook, and E. Craig Simmons, Colorado School of Mines are the convenors. The deadline for applications is April 1, 1988. The registration fee will be \$395 and will cover lodging, meals, field trips, and transportation to and from Stapleton airport in Denver.

Did you know ...

There will be a special session on spectroscopy at the Spring AGU meeting. This follows the MSA Short Course, "Spectroscopy in Mineralogy and Geology," which will be held May 12-15, 1988. The AGU session is intended to provide a forum for recent spectroscopic work in mineralogy, mineral physics, and geology. Contributions are solicited from all areas of contemporary spectroscopy; applications of new techniques are particularly welcome.

Interested parties sould contact the organizer, F. C. Hawthorne, CNR, Centro di Cristallographia Struturale, Via Bassi, 4, 27100 Pavia, Italy. Abstracts should be submitted in the normal way. For abstract details, please contact AGU immediately as the abstract deadline is February 24, 1988. The address for AGU is 2000 Florida Avenue N.W., Washington, D.C. 20009; (202) 462-6903.

Volunteers are needed to abstract the *Journal of Sedimentary Petrology* and *Soviet Physics-Doklady* in English translation for crystallography articles for *Mineralogical Abstracts*. Interested persons should contact the American Organizer, Karl A. Riggs, Jr., P. O. Box KR, Mississippi St., MS 39762; (601) 325-3915.

The 1988-1990 Membership Directory is scheduled to be published in May 1988. All members were sent a directory information card with their 1988 renewal notice. Please be sure to return the completed card no later than March 30. The additional information on the card, such as highest degree earned and institution, will be entered into the Society's computer and used to produce demographics on the membership. Your cooperation in completing this portion of the information card is appreciated. If you did not receive a card, or have lost your card, please contact the Business Office.

Members in the news

Congratulations to David J. Vaughan who became President of the Mineralogical Society of Great Britain in December, 1987, and who will be leaving his present post at the University of Aston on May 1, 1988 to become Professor of Mineralogy at the University of Manchester.

Registrations being accepted for Spring Short Course

Spectroscopic Methods in Mineralogy and Geology is the topic of the 1988 Spring Short Course to be held May 12-15, in Hunt Valley, Maryland, a suburb of Baltimore, Maryland. Convened by Frank C. Hawthorne, The University of Manitoba, the course will provide an introduction to various topics in spectroscopy.

Topics and speakers include: Infrared and Raman Spectroscopy—P. McMillan and A. Hofmeister; Electronic Absorption Spectroscopy—G. R. Rossman; Mossbauer Spectroscopy—F. C. Hawthorne; N. M. R. Spectroscopy—R. J. Kirkpatrick and J. Stebbins; Neutron Spectroscopy—S. Ghose; EXAFS/XANES—G. E. Brown, Jr., G. Calas, and G. Waychunas; ESR Spectroscopy—G. Calas; Auger/XPS—M. Hochella, Jr.; and future methods—G. Waychunas. Additional topics include introductory quantum mechanics, symmetry and group theory, and spectrum fitting techniques.

The course will begin with a welcoming reception Thursday evening, May 12. Sessions will begin Friday morning, May 13

and end the afternoon of Sunday, May 15. The registration fee includes the short course program and accompanying volume of the *Reviews in Mineralogy* series, lunch on Friday and Saturday, daily coffee breaks, and the welcoming reception on Thursday.

Registration fees are as follows:

MSA Member Professionals
Non-member Professionals

MSA Member Students
Non-member Students
\$100
\$120*

*includes membership dues for 1988.

The course will be held at the Embassy Suites Hotel, located directly across the street from the Hunt Valley Marriott, site of the V. M. Goldschmidt Conference May 11-13, and convenient to downtown Baltimore, site of the AGU Spring Meeting May 15-20.

Course participants should make their sleeping room reservations directly with the hotel by calling (301) 584-1400 or writing the Embassy Suites Hotel, Shawan Center, 213 International Circle, Hunt Valley, Maryland 21031. When you make your

reservations, please be sure to tell the hotel that you are attending the MSA Short Course so that you receive the special room rate.

All rooms in the hotel are suites and can sleep up to four individuals. Each suite also includes a full kitchen. The cost per night per room is \$82. If four individuals stay in one suite the per person cost per night is \$20.50. Individual participants are responsible for finding roommates if they wish to share a hotel room. This rate also includes a full, complimentary breakfast and two-hour complimentary happy hour each evening. The hotel will extend this room rate to individuals attending the Goldschmidt Conference prior to the short course.

Registration fees must accompany the registration form. Please send this form directly to the MSA Business Office. Space is limited to the first 125 registrants on a first-come, first-served basis. Participants are responsible for making their own hotel reservations and the payment of same directly with the hotel.

If you have additional questions, please contact the MSA Business Office at (202) 775-4344.

Registration Form Spectroscopic Methods in Mineralogy and Geology May 12-15, 1988 Baltimore, Maryland

Please return this registration form, completed, to the MSA Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006. Payment must accompany this form. Registration is limited to 125 individuals on a first-come, first-served basis.

Please type or print.

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Goldschmidt Conference quickly approaching

May 11-13, 1988 are the dates for the first V. M. Goldschmidt Conference, focusing on the chemical aspects of the earth and planetary sciences. It is sponsored by the Geochemical Society, the European Association of Geochemistry, the International Association of Geochemistry and Cosmochemistry, the Mineralogical Society of America, the Association of Exploration Geochemists, and the Division of Geochemistry of the American Chemical Society. The Society of Environmental Geochemistry and Health is a participating

The following symposium on special topics in geochemistry have been planned: Eleventh Symposium on Geochemical Cycles—C. B. Gregor; Paleoceanography—G. W. Brass; the Archean Environment-J. C. G. Walker, Ore-forming Processes—M. T. Einaudi; Geochemistry with Cosmogenic Isotopes-L. Brown and D. Lal; Environmental Geochemistry—J. O. Nriagu; Organic Geochemistry in Hydrocarbon Exploration-R. P. Philp; Origin and Diagenesis of Humic Substances, Coal, and Kerogen-P. G. Hatcher; Modern Concepts in Crystal Chemistry-G. V. Gibbs; Mantle Petrology and Mineralogy-D. H. Eggler; and Geochemistry of Platinum Group Metals—Colin Dunn. Contributed symposia in a variety of subject matters will also be held.

The registration fees for the three-day meeting are listed below. The cost includes attendance at all technical sessions, a conference packet with name badge, the opening reception on Tuesday, May 10, refreshment breaks during the conference, and a copy of the conference abstract volume. Field trips, activities for accompanying persons, and the banquet Thursday evening are additional. Advance registrations will be acknowledged by letter with a confirmation receipt. Additional information on travel, restaurants, and onsite check-in times will be included.

The meeting will be held at the Hunt Valley Inn, located 25 km north of downtown Baltimore. All activities will be held at this facility. The cost per room at this hotel is \$96.32 per night including tax. Rooms have two double beds, or a king size bed. Complete details, including a housing reservation form are available from the Goldschmidt Conference Coordinator, 410 Keller Building, The Pennsylvania State University, University Park, PA 16802; (814) 865-7573.

The Second Circular will be mailed to all MSA members shortly. Please consult this publication for the costs of field trips, accompanying person programs, and other items, or call the Conference Coordinator.

Mark dates for **Fall Short Course**

"Hydrous Phyllosilicates Exclusive of Micas," is the topic of the second 1988 Short Course to be held October 29-30 in Denver, Colorado, just prior to the MSA/GSA Annual Meeting. Sturges W. Bailey, University of Wisconsin-Madison, is the convenor.

A welcoming reception will be held Friday evening, October 28. Sessions will start early Saturday morning and continue through late Sunday afternoon. Registration fees and a registration form will be included in the May issue of this newsletter. The course will be held at the Holiday Inn Downtown. Hotel sleeping-room costs and registration information will also be available in the May

Topics and speakers for this two-day program include: Polytypism of 1:1 layer silicates—S. W. Bailey; Kaolin minerals: structures and stabilities-R. F. Giese, Jr.; Kaolin minerals: occurences and origins—H. H. Murray; Serpentine minerals: structures and petrology—F. J. Wicks; Structures and compositions of other trioctahedral 1:1 phyllosilicates—S. W. Bailey; Isotopic studies of phyllosilicates—S. M. Savin; Talc and pyrophyllite—S. Guggenheim and B. W. Evans; Phase equilibria of serpentines and chlorites-J. V. Chernosky, R. Berman, and L. T. Bryndzia; Chlorites: structures and crystal chemistry-S. W. Bailey; Vector representation of chlorite and related phyllosilicate compositions—D. M. Burt; Chlorites: metamorphic petrology—J. Laird; Vermiculite—C. de la Calle and H. Suquet; Smectite—N. Guven; Regular and random interstratifications—R. C. Reynolds, Jr.; Sepiolite and palygorskite—B. F. Jones and E. Galan; and Modulated Fe-, Mn-rich layer structures-S. Guggenheim and R. A. Eggleton.

If this is a course of interest to you, mark your calendars now and plan to attend!

Members of participating societies

Nonmembers of participating societies

All students

Accompanying persons

\$ 80 by February 28, 1988

- \$100 after February 28, 1988
- \$100 by February 28, 1988 \$120 after February 28, 1988
- \$ 40 by February 28, 1988
- \$ 50 after February 28, 1988
- \$ 50 (no late charge)

Members

Continued from page 2.

A strong loyalty among members is evidenced by the Society's renewal figures. As of January 22, approximately 84 percent of the Society's professional members and 60 percent of the student members had renewed. This is consistent with previous

The fact that just 550 individuals or 20 percent of the membership will be sent a 6/The Lattice

second renewal notice this month, saves the Society thousands of dollars. This money is saved in several areas: the cost of printing and mailing second renewal notices is less; more individuals receive the journal on time via the less expensive second class postage; fewer journals are stored; and fewer journals are mailed as back issues from the Business Office at a cost almost twice that of the original mailing.

It is hoped that all members take full advantage of MSA's member benefits and choose to participate in committee work and Society activities. If you have questions regarding the member benefits, know individuals who should be members but are not, or have questions regarding your membership, please contact the Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344.

February, 1988

Meeting Calendar

April			
5-8	Materials Research Society Spring Meeting. Details: MRS, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; (412) 367-3003.	27	Paul Niggli Colloquium. Details: ETH Zurich, Institut fur Mineralogie und Petrographie, Z.Hd. Frau Claudia Buchel, ETH Zentrum, CH-8092 Zurich, Switzerland.
7-9	Second International Symposium on Experimental	August	
	Mineralogy, Petrology, and Geochemistry. Details: The Bochum Symposium, Institut fur Mineralogie, Ruhr Universitat, Postfach 10 21 48, D-4630 Bochum 1, West Germany.	12-15	Mineralogy of Precious Metal Deposits, Golden, Colorado, sponsored by the Colorado Chapter of Friends of Mineralogy. <i>Details: James A. McGlasson</i> , 7387 South Flower Street, Littleton, CO 80123, (303) 972-0376; or James F. Hurlbut, 622 Gardenia Ct.,
May			Golden, CO 80401, (303) 279-7796.
11-13	The V. M. Goldschmidt Conference organized by the Geochemical Society; co-sponsored by MSA, Baltimore, Maryland.	14-19	Penrose Conference on "The Origin and Evolution of Anorthosites and Associated Rocks," Chugwater,
13-15	MSA 1988 Spring Short Course, Spectroscopic Methods in Mineralogy and Geology.		Wyoming. Details: B. Ronald Frost, Department of Geology and Geophysics, P. O. Box 3006, University of Wyoming, Laramie, WY 82071; (307) 766-4290.
15-20	American Geophysical Union Spring Meeting, Baltimore, Maryland. Details: AGU, 2000 Florida Avenue N.W., Washington, D.C. 20009; (202) 462- 6903.	21-24	Fifth Annual Midyear Meeting of the Society of Economic Paleontologists and Mineralogists, Columbus, Ohio. <i>Details: SEPM, P.O. Box 4756, Tulsa, OK 74159; (918) 743-9765.</i>
22-25	GAC/MAC/CSPG Joint Meeting. Details: MAC, Royal	September	
	Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6.	4-8	Zeolites as Catalysts, Sorbents and Detergent Buildings, Wurzburg, West Germany. <i>Details: Dr.</i> Hellmut G. Karge, Fritz-Haber-Institut der Max-Planck- Gesellschaft, Faradayweg 4-6, D-1000 Berlin 33, West Germany.
31-June 3	Third Annual Meeting of the Society for the Preservation of Natural History Collections (SPNHC). Details: Duane A. Schlitter or Stephen L. Williams, The Carnegie Museum of Natural History, 5800 Baum Blvd., Pittsburgh, PA 15206-3706; (412) 665-2611.	18-21	25th Annual Meeting of the Clay Minerals Society, Grand Rapids, Michigan. Details: Dr. Thomas J. Pinnavaia, Dept of Chemistry, Michigan State Univ, East Lansing, MI 48824; (517) 355-4626.
30-June 3	International Meeting on Advanced Materials, the first	October	
jo-june j	multi-symposia of the Materials Research Society. Details: MRS, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; (412) 367-3003.	29-30	Hydrous Phyllosilicates exclusive of Micas. MSA Short Course, Denver, Colorado. <i>Details: MSA Business Office.</i>
30-June 3	1988 Annual Meeting of the Society for the Preservation of Natural History Collections,	31-Nov. 3	1988 MSA/GSA Annual Meeting, Denver, Colorado. Details: MSA Business Office.
	Pittsburgh, Pennsylvania. Details: Duane E.	November	
	Schlitter/Stephen L. Williams, Section of Mammals, The Carnegie Museum of Natural History, 5800 Baum Blvd., Pittsburgh, PA 15206; (412) 665-2611.	28-Dec. 3	Materials Research Society Fall Meeting. Details: MRS, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; (412) 367-3003.
		1989	
June	11 11 12 1 1000 0 1 1 1 1 0 1 1 1	May	
10	Abstract deadline for the 1988 Geological Society of America Annual Meeting, October 31-November 3, Denver, Colorado.		MAC Short Course: Diagenesis; Montreal, Quebec, Canada. Details: MAC, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6.
19-24	11th International Symposium on the Reactivity of	July	
	Solids, Princeton, New Jersey. Details: Dr. M. Stanley Whittingham, P.O. Box 669, Ridgefield, CT 06877.	9-19	28th International Geological Congress, Washington, D.C. Details: Dr. Bruce B. Hanshaw, Secretary General, P. O. Box 1001, Herndon, VA 22070-1001; (703) 648-6053.

Welcome!

The following new members and students have joined MSA effective January 1, 1988. Welcome! Applications for membership may be obtained from the Business Office, 1625 I Street N.W., Suite 414, Washington, D. C. 20006; (202) 775-4344. Membership applications received October 1 through December 31, 1988 will be made effective January 1, 1989 unless otherwise requested.

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February, 1988

1st Circular

First Circular January 1988 15th General Meeting of the International Mineralogical Association 28 June - 3 July, 1990 Beijing, China

Sponsors

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The 15th General Meeting of the International Mineralogical Association (IMA) will be held in Beijing, the People's Republic of China, 28 June to 3 July, 1990. The sponsors invite you to participate in the activities of the meeting and excursions.

Scientific Program

The program will include symposia and plenary lectures organized by Commissions, Working Groups, and the Program Committee. A joint symposium on selected interdisciplinary topics will be held jointly with the International Association of Geochemistry and Cosmochemistry. There will be oral and poster sessions of contributed papers organized by subject. Complete details will be given in the Second Circular and in some mineralogical journals.

Exhibition

An exhibition of equipment, books, and minerals will be arranged. Potential exhibitors should send all correspondence concerning the exhibition to the following address: Dr. Huang Zhengzhi, IMA 1990 Exhibition, c/o Geological Museum of China, Xi Si, Beijing, China.

Publications

All contributions will be published as "extended abstracts" that will be available at the meeting and that will be considered as published articles. There will be no proceedings volume published after the meeting.

Language

The official language of the meeting will be English.

Registration Fees

The fees include attendance at the scientific events associated with the meeting, the meeting publication, and participation in social events especially organized for the meeting.

	Preregistration	Late Registration after
		28 February 1990
Participating	\$250 US	\$300 US
Member		
	#100 TIC	#220 FIG
Accompanying	\$180 US	\$230 US
Member		
Student in 1990	\$160 US	\$200 US
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In the event of a participant having to cancel registration for some reason, 50 percent of the paid fee will be returned if the statement of cancellation is received before 30 April 1990. No reimbursement will be made after this date.

Social Program

Several tours will be organized during the meeting for accompanying members such as a visit to the Ming Tombs, Summer Palace, Palace Museum, and Tian An Men Square. In addition, social events for all members will include a reception, a banquet, and a sightseeing tour of the Great Wall. Other activities will be announced at a later date.

Accommodations

Hotel room rates cannot be quoted firmly until the Second Circular, but will range between \$30 and \$100 per night, not including meals.

Important Dates

Second Circular: February 1989 Abstract Deadline: 31 December 1989 Preregistration Deadline: 28 February 1990

Third Circular: April 1990

Address for Correspondence

IMA 1990 Dr. Wang Zejiu Chinese Academy of Geological Sciences Baiwanzhuang Road 26, Fu Wai Beijing 100037 China

Field Trips

Ten field trips are planned to allow participants to view some typical minerals, rocks, and mineral deposits in China. At this time, all field trips are tentatively arranged as both pre- and post-meeting excursions. You are asked to indicate your interest in a particular field trip and whether you prefer to attend before or after the meeting on the return form below. If the number of pre-meeting or post-meeting potential registrants in one trip is less than 10, this trip will be arranged as a pre- or post-meeting trip only. Your early response on the return form will therefore influence the final scheduling of trips.

Notes

- 1) The costs for field trips are estimated at the present time to be approximately \$65-85 US per day. The Second Circular will contain more accurate information on costs.
- 2) The field trip for accompanying persons is extra, approximately \$20 US per day.
- 3) The deadline for paying field trip fees is 28 February 1990. In the event a participant must cancel an excursion for some reason, 80 percent of the paid fee will be made if the statement of cancellation is received before 30 April 1990. No reimbursement will be made after this date.

1. Archaean Metamorphic Rocks, Gold Deposit, and Granite in Shandong Province

Leaders: Shandong Bureau of Geology and Mineral Resources, Prof. Chen Guangyuan

Duration: 8 days

Maximum Number of Participants: 40

Route: Beijing—Taishan Mountain (Archaean metamorphic rocks and minerals)—Zhaoyuan (Sanshandao and Linglong Au deposits)—Qingdao (Laoshan granite)—Beijing (end)

2. Rare Earth Elements and Iron Deposits, Skarn Minerals, and Gold Deposit in Bayan Obo, Inner Mongolia

Leaders: Office of Baotou Iron and Steel Company, Prof. Zhang Peishan

Duration: 6 days

Duration: 6 days

Maximum Number of Participants: 40

Route: Beijing—Baotou (REE and Fe minerals in the main and eastern ore bodies of Bayan Obo mine, skarn minerals, aegirine, alkali amphiboles and Au deposit)—Beijing (end)

3. Metamorphic Rocks of Anshan Group, Boron Deposit, Magnesite Deposit, and Kimberlite in Liaoning Province Leader: Liaoning Bureau of Geology and Mineral Resources

Duration: 7 days

Maximum Number of Participants: 40

Route: Beijing—Anshan (metamorphic rocks and minerals of Anshan Group)—Yingkou (Houxianyu B deposit)— Dashiqiao (magnesite deposit)—Dalian (kimberlite and diamond in Xinjin County)—Shenyang (end and exit) or—Beijing (end)

4. Molybdenum and Gold Deposits in Shaanxi Province

Leader: Xi'an Institute of Geology and Mineral Resources

Duration: 6 days

Maximum Number of Participants: 40

Route: Beijing—Xi'an (Jinduicheng porphyry Mo mine and Tongguan Au deposit)—Beijing (end)

5. Tin-Polymetallic Mine in Dachang and Karst Geology in Guilin, Guangxi Zhuang Autonomous Region

Leaders: Guilin Institute of Karst Geology, Dachang Bureau of Mining Affairs, Prof. Huang Minzhi

Duration: 7 days

Maximum Number of Participants: 40

Route: Beijing—Guilin—Dachang (cassiterite, sulfides and sulfosalts)—Lamo (granite, Sn-Cu-Zn deposit and skarn minerals)—Guilin (karst geology) (end and exit) or—Beijing (end)

6. Tungsten, Tin, Lead, Zinc, and Rare Metals Deposit in Hunan Province and Karst Geology in Guilin

Leaders: Geological Team of Southern Hunan, Research Institute of Geology for Mineral Resources, CNNC, Guilin

Duration: 8 days

Maximum Number of Participants: 40

Route: Beijing—Chenzhou (Yaogangxian W mine, Huangshaping Pb-Zn mine, Shizhuyuan W-Sn-Mo-Bi deposit and skarn minerals)—Guilin (karst geology) (end and exit) or—Beijing (end)

7. Volcanic Vent, Alkaline Volcanic Complex, Alkaline Granite and Clay Mine in Jiangsu Province

Leader: Nanjing Institute of Geology and Mineral Resources Duration: 7 days

Maximum Number of Participants: 40

Route: Beijing—Nanjing (Niangniangshan volcanic vent, alkaline volcanic complex, leucite and hauyne)—
Suzhou (alkaline granite and clay mine)—Shanghai (end and exit) or—Beijing (end)

8. Rare Metals Pegmatite in Xinjiang Uighur Autonomous Region

Leader: Xinjiang Bureau of Geology and Mineral Resources

Duration: 7 days

Maximum Number of Participants: 20

Route: Beijing—Wulumuqi—Altai (Pegmatite Vein No. 3 and pegmatitic minerals in Keketuohai)—Wulumuqi (end and exit) or—Beijing (end)

9. Volcanic Rocks, Ultrabasic Rocks, Copper and Cu-Ni Mines in Gansu Province

Leader: Gansu Branch of CNNC

Duration: 6 days

Maximum Number of Participants: 40

Route: Beijing—Lanzhou (Baiyinchang volcanic rocks and Cudeposit, Jinchuan ultrabasic rocks and Cu-Nisulfides)—Beijing (end)

10. Miarolitic Granite, Pyrophyllite Mine, Kinetic

Metamorphic Zone, and Mylonite Zone in Fujian Province

Leader: Fujian Bureau of Geology and Mineral Resources

Duration: 7 days

Postmeeting.

Remarks -

Maximum Number of Participants: 40

Route: Beijing—Fuzhou (Kuiqi miarolitic granite, minerals in miarolitic cavities, pyrophyllite and agalmatolite, kinetic metamorphic zone and mylonite zone)—Xiamem (end and exit) or Beijing (end)

Please complete this form, place it in an envelope, and mail to: IMA 1990 Dr. Wang Zejiu Chinese Academy of Geological Sciences Baiwanzhuang Road 26, Fu Wai Beijing 100037 China Please return immediately, or no later than 1 November 1988.
Surname
First name(s) Title
Institution
Street
City State Zip
ProvinceCountry
My chances of attending are certain, very possible, not sure
I expect to be accompanied by non-participating persons.
I intend to submit an abstract on
I hope to take part in field excursion(s): (Please list the trip number)
Premeeting



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