

The Lattice

Vol. 2, No. 1, February 1986

MSA Members Eligible for Grants, Awards

The following is a list of awards, grants and scholarships offered by MSA and other organizations for which MSA members may be eligible. A brief description of the criteria, deadlines for application, and other information is provided as available. The name, address, and telephone number of the sponsoring organization is included below. Interested individuals are encouraged to contact the sponsoring organization to verify this information, and obtain additional information, including application forms if necessary. If you know of other awards, please send pertinent information to the MSA Business Office. This list will be repeated periodically to keep members informed of deadlines and new awards.

Roebing Medal, awarded for eminence as represented by outstanding original research in mineralogy. Nomination deadline is July 1 (*MSA, AS, Annual*).

Mineralogical Society of America Award, given in recognition of outstanding contribution to research prior to 35th birthday. Awardee must be under 37 years of age on January 1, 1986. Nomination deadline is July 1 (*MSA, AS, Annual*).

Penrose Medal, awarded in recognition of outstanding original research, contributions, or achievements that mark a decided advance in the science of geology. Deadline for nomination is February 1 (*GSA, AS, Annual*).

Arthur L. Day Medal, awarded to an individual for outstanding distinction in contributing to geologic knowledge through the application of physics and chemistry to the solution of geologic problems. Nomination deadline is February 1 (*GSA, Annual*).

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Registration Deadlines Approach for IMA 86 Meeting in July

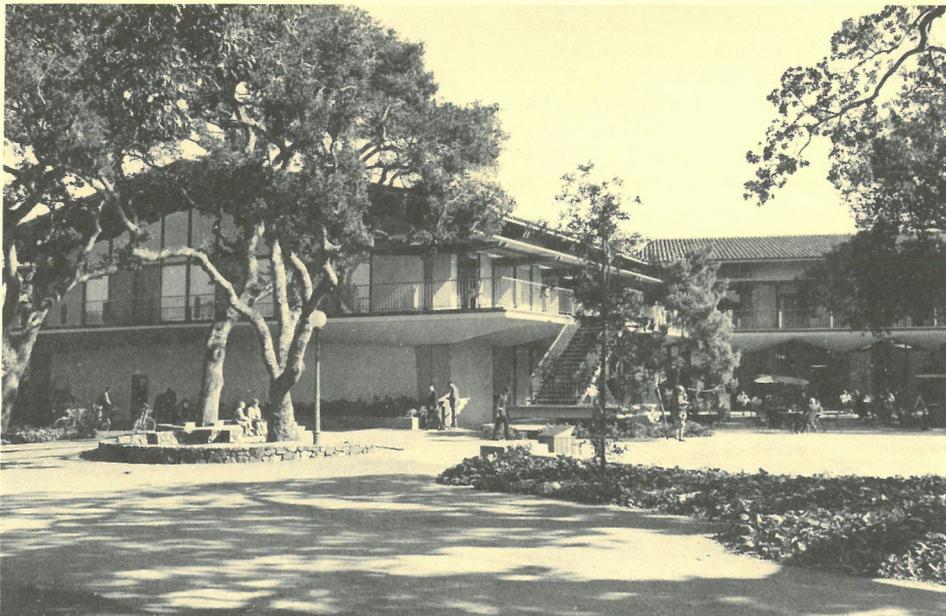
MSA and the U.S. Geological Survey invite you to attend the 14th General Meeting of the International Mineralogical Association (IMA) which will be held on the campus of Stanford University, July 13-18, 1986. The Second Circular, published in the Fall of 1985 contains all necessary information for interested participants, including registration forms, abstract information and a full description of all activities and field trips. The Circular may be obtained by calling or writing the MSA Business Office at 1625 I Street N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344.

The scientific program will consist of hour-long plenary lectures, organized symposia composed of invited speakers,

and poster sessions organized by subject, at which all contributed papers will be presented. The poster sessions will be scheduled with no conflicting oral (symposium) presentations. It is hoped that the poster sessions will provide an opportunity for informal personal contact and that all attendees will consider presenting a poster on any topic of mineralogical, petrological, or geochemical interest.

Plenary speakers for the meeting include: Peter J. Wyllie, California Institute of Technology, "Progress in Experimental Petrology of Granitic Rocks;" Donald Brownlee, University of Washington, "Collection and Analysis of

Continued on page 6.



The courtyard of the Tressidor Union, Stanford University, will provide the setting for the numerous poster sessions planned during the IMA meeting.

From the President

An Overview for 1986 Shows Change and Increased Activity

Dear Members,

My predecessor, Hans Eugster, presided over a tumultuous year for the Society in 1985. Many of the changes that were begun under his guidance have (or will) reach fruition in 1986.

Chief among these is a first for MSA, the establishment of an independent and fully staffed Business Office. It became evident over the last several years that the expanding needs and potential required more support than that offered at the American Geophysical Union (AGU). Thus, last autumn after several months of careful consideration by Council, the Management Committee, and the Financial Advisory Committee, we amicably severed the tie to AGU.

Last December we inaugurated our own Business Office under the direction of Barbara B. Minich, executive secretary. The new address of the Business Office is 1625 I Street N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344. Even before the move, Barbara and Mona Tennyson, membership coordinator, had increased the efficiency of the Business Office and we anticipate a continued improvement in service for membership programs and sales activities. Thanks a lot, from all of us, Barbara and Mona! They are now joined by Susan L. Myers, accountant, and Winston Steverson, administrative assistant.

MSA is in excellent financial condition, even with the costs of establishing the independent Business Office. To stabilize and secure our investments, we have begun to transfer our endowment funds from a contracted manager to a combination of mutual funds, a situation which should result in a more consistently profitable investment performance. Many thanks to Gordon Nord for a fine job as Treasurer!

A committee, under the chairmanship of Cathy Skinner, will seek ways to finance several worthwhile, but thus far unaffordable, services and activities to help the Society continue to grow and expand its member services. This will be the Development Committee.

The ad hoc committee on the future of the Society (formerly the Development Committee) has been renamed the "Outlook Committee," and will be chaired by Vice-President Paul H. Ribbe, and associate chair, Councillor Cornelis Klein.

It has several tasks before it, one of the more important and far-reaching being to consider the possibilities for an additional meeting, probably in the Spring. Such a meeting would be affiliated (or at least coordinated) with some of our sister societies.

Through our selection of topics for future short courses and volumes of the *Reviews in Mineralogy* series, publication practices, and emphasis on topics at meetings, we hope to broaden the outlook of MSA by increasing its attractiveness to other scientists, especially those mineralogists dealing with mineral physics and applied mineralogy. This is in addition to our more traditional roles in petrology and geochemistry. Of course, there is no intention of downplaying mineralogy or crystallography.

This summer MSA will co-host with the U.S. Geological Survey the 14th General Meeting of the International Mineralogical Association (IMA). The meeting will be held at Stanford University July 13-18. This will be an outstanding meeting with wide-ranging field trips as well as a fine technical program. (See elsewhere in this issue of *The Lattice* for additional details.) Two circulars have already been sent out by the organizing committee capably chaired by Past President Charles T. Prewitt. Because many advance commitments must be made for facilities, and because it is so difficult to predict the level of participation at an international meeting, a good estimate of attendance needs to be made as early as possible. Therefore, I urge all who hope to attend the meeting and/or field trips to respond to the invitation promptly. Additional registration forms are available from the Business Office.

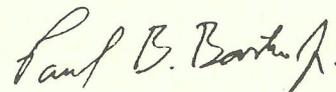
"Stable Isotopes in High-Temperature Processes," is the title of the next short

course (November 1986) and Volume 16 of the *Reviews in Mineralogy* series. The series continues to be very successful, both in terms of excellent educational presentations at the short courses and with respect to the inexpensive, authoritative, state-of-the-art publications whose extensive sales are so helpful in financing MSA activities.

Each of these activities requires the efforts of member volunteers who spend much time and energy on behalf of the Society. I know the whole Society joins me in expressing appreciation to Series Editor Paul Ribbe, the Short Course Committee most recently chaired by Dave Veblen, and the many authors and speakers who prepare the volumes and present the courses.

We are pleased to welcome James Munoz, University of Colorado, Boulder, as the new editor of *The American Mineralogist*. Jim has secured the experienced assistance of Mary Eberle who became managing editor in October, and four new associate editors: Michael F. Hochella, Jr., Richard J. Reeder, Frank J. Spera, and Michael A. Carpenter. Jim is ably following the examples of a long line of predecessors, most recently Michael J. Holdaway. We thank Mike for his dedicated and effective service to the Society.

To recap, as we begin the new year MSA faces unbounded opportunities, as well as some new uncertainties. It is a privilege, however, to serve the Society, especially at this time. I shall do my very best.



Paul B. Barton
President

1986 President: Paul B. Barton, Jr., U.S. Geological Survey
Past-President: Hans P. Eugster, Johns Hopkins University
Vice-President: Paul H. Ribbe, Virginia Polytechnic and State University
Secretary: Henry O. A. Meyer, Purdue University
Treasurer: Gordon L. Nord, Jr., U.S. Geological Survey
Executive Secretary: Barbara B. Minich

Published at the MSA Business Office, 1625 I Street N.W., Suite 414,
Washington, D.C. 20006; (202) 775-4344.

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Members Nominate Undergraduates for 1986 AMU Awards

MSA Council Announces Slate for May Ballot

The following slate of candidates has been announced. They will appear on the May 1986 member ballot. The candidates were selected by Council on the recommendation of the Nominating Committee for Officers. The ballot will be mailed in early May; it must be returned by August 1.

Any ten members of the Society may forward to the Secretary other nominations for any elective office. These nominations must be received at the Business Office no later than April 15.

President:

Paul H. Ribbe
Virginia Polytechnic Institute and State University
Blacksburg, VA

Vice-President:

Peter R. Buseck
Arizona State University
Tempe, AZ

David B. Stewart
U.S. Geological Survey
Reston, VA

Treasurer:

Gordon L. Nord
U.S. Geological Survey
Reston, VA

Secretary:

Henry O.A. Meyer continues in office

Councillors:

Larry W. Finger
Geophysical Laboratory
Washington, D.C.

Michael J. Holdaway
Southern Methodist University
Dallas, TX

Douglas Rumble III
Geophysical Laboratory/National Science Foundation
Washington, D.C.

Richard A. Yund
Brown University
Providence, RI

MSA members again responded positively to the American Mineralogist Undergraduate Award (AMU), the Society's program to recognize outstanding undergraduate students. Recipients receive a complimentary student membership, including the journal, for 1986.

Each student receives a certificate that is presented at an awards ceremony at his or her university or college. MSA encourages, but does not require, departments to nominate juniors who will be seniors during the year that they receive the award. Additional schools are participating in this the second year of the award. Nominations for 1986 were accepted through November 1, 1985. Certificates have been mailed to all sponsoring departments.

Nominations are now open, through November 1, 1986, for the 1987 awards. To nominate a student, the sponsoring department must offer one or more courses in crystallography, mineralogy or petrology, and a member of the permanent (or tenure-track) faculty must be a member or fellow of MSA. A department may sponsor only one student per year. The certificate must be presented during a departmental or university award program.

Nominations should be in the form of a letter on department letterhead giving the student's full name (for the certificate), departmental address, year in school, interest area, MSA sponsor name, and the date and a brief description of the award ceremony at which the certificate will be presented. The letter must be signed by the department chair. Letters of nomination should be sent to the MSA Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006.

Congratulations to the following recipients of the 1986 American Mineralogist Undergraduate Award and their sponsors:

86 ✓ David Guy Finley
Florida International University
sponsored by Gautam Sen

86 ✓ Kevin Righter
Bryn Mawr College/Haverford College
sponsored by William A. Crawford and Maria Luisa Crawford

86 ✓ David J. Bell
Rutgers University
sponsored by Roger H. Hewins

87 ✓ James Scoates
Queen's University
sponsored by R.C. Peterson

86 ✓ Brian G. Jeffs
Western Michigan University
sponsored by Ronald B. Chase and John D. Grace

86 ✓ David J. Lepse
The University of Iowa
sponsored by C.T. Foster, Jr.

86 ✓ Brian Elias
The University of New Mexico
sponsored by Cornelis Klein.

87 ✓ Eric Seth Johnson
The Colorado College
sponsored by Bruce M. Loeffler

87 ✓ Cameron Mack Davidson
University of Wisconsin-Madison
sponsored by L. G. Medaris, Jr.

86 ✓ Matthew Valenti
State University of New York, Stony Brook
sponsored by Steve Bohlen, Don Lindsley and Charles T. Prewitt

86 ✓ Theresa Marie Dunn
University of Nebraska, Lincoln
sponsored by Samuel B. Treves

86 ✓ Dena J. Grimes
Stephen F. Austin State University
sponsored by Volker Gobel

86 ✓ John Smith III
University of Houston
sponsored by Don Elthon and Max F. Carman

86 ✓ Melinda J. Springfield
West Georgia College
sponsored by Curtis Hollabaugh

87 ✓ Gregory H. Symmes
Amherst College
sponsored by E.A. Downie and J. T. Cheney

86 ✓ Ritchie Ho
University of Hawaii at Manoa
sponsored by Michael Garcia

86 ✓ Emily Gloeckler
The University of Akron
sponsored by R.G. Corbett and V. M. Friberg

? ✓ Yvonne Cynthia Gil
Smith College
sponsored by John B. Brady

86 ✓ Charl Du Toit
The University of Calgary
sponsored by P. Bayliss

86 ✓ K. Carolina Torres
University of Massachusetts
sponsored by Howard W. Jaffe

Opinions Differ on Whether Two-Candidate Slate Is Beneficial for the Society

As most MSA members are aware, we elect a vice-president from a two-candidate slate for a one-year term, followed a year later by the election to the Presidency, usually from a one-candidate slate. Since 1979, the Nominating Committee for Officers has been required to provide a choice of at least two candidates. The membership-at-large is always able to suggest additional nominees for either vice-president or president, although they seldom choose to do so.

This procedure has served us well for several years, but some of us have become concerned that perhaps the contested election of the vice-president/president is unnecessary or maybe even divisive. We would note that the two authors of this discussion, your current president and immediate past president, represent opposite opinions concerning what to do about it; thus we hope our tandem effort will give you a balanced presentation.

In order to poll the membership and put its wishes into immediate effect, Council has proposed the following amendment to the By-Laws whereby beginning with the election conducted in 1987 the Society would revert to the pre-1979 system of having only a single candidate proposed for Vice-President/President. The change is noted by the words crossed out below, to be stricken from the existing By-Laws which now read as follows:

By-Laws, Art. IV, Sec. 1 "For Councillors there shall be at least twice as many nominees as there are open positions, and there shall be two nominees for Vice President. Any ten voting members may forward to the Secretary other nominations for any elective office."

Thus the mechanism for the membership to nominate candidates on its own remains unchanged.

Points favoring a return to a one-candidate slate for vice-president:

1. The Nominating Committee for Officers and the Council always try to find the best candidate available; thus the Society maintains viable leadership. But in order for there to be a winner, there must be a loser; and the losers are always very competent people too.

2. The loser may consider him/herself rejected by the Society, even when in fact the vote may have been very close. One-

time losers are far less willing to stand for election subsequently, not wanting to become two-time losers. Thus the Society tends to dissipate some of our very best talent. The committee's experience indicates that this is indeed a factor in the willingness of some individuals to again stand for election.

3. In the case of Councillors, the candidates are in groups of at least four, so the losers always have company, and good company at that.

4. The Vice-Presidency/Presidency is not an office for personal gain, but rather for personal sacrifice. Good candidates are not abundant. The Society risks the loss or even alienation of dedicated members when we place them in a position where half of them must lose. Some of them will not care—some may even welcome the freedom from Society responsibilities—but some will also be hurt. It is a tragedy to waste a good candidate.

Points favoring retention of the two-candidate system:

1. Ours is a democratic Society, and choice of candidates is an essential ingredient in this system. It helps prevent

small cliques from dominating Society affairs. With a one-candidate slate there is no choice, because the Nominating Committee for Officers consists of appointed members only. To rely on the membership-at-large for additional candidates is simply not realistic.

2. The existence of a competition for office increases the interest of the membership in the elective process, thus the contested election encourages participation.

3. Rather than being divisive, the two-candidate slate has been a very real expression of balance. Presidents have been fairly evenly distributed among mineralogists and crystallographers and have represented a wide geographic distribution.

4. With the establishment of a highly professional Business Office, the tasks of the Presidency have become less onerous and more fun and it now should not be difficult to find qualified candidates.

The above By-Laws change will appear on the 1986 member ballot which will be mailed in early May. Your comments are encouraged and will be published in the May issue of this newsletter. Please send your comments to the Business Office. The wishes of the membership will be reflected by its vote.

Paul B. Barton
President

Hans Eugster
Past President

New Computer Makes Debut

This issue of *The Lattice* has been mailed using labels generated by the new MSA Business Office computer. If you will look at the label you will notice that there is a five-digit account number above your name. This is your new account number. For those of you who have had your account number changed three to four times in the past several years, please be patient. This account number should last you for as long as you are a MSA member!

Please make a note of this number and use it when talking with staff members. For convenience, we will be able to locate your membership record using either this number or the previous nine-digit number for the next several months.

While the information has been transferred directly from one computer system to another, please check the information on this new label. If there is an error, please notify the Business Office so it can be corrected.



John M. Ferry talks with a colleague after accepting the MSA Award at the Annual Luncheon in Orlando last October while his wife Margaret looks on.

1986 Calendar

February

- 1 Deadline for field trip registrations for IMA 86 meeting.
- 14 Approximate mail date for January/February issue of *The American Mineralogist*.
- 20 Approximate mail date for February issue of *The Lattice*

March

- 1 Deadline for submitting abstracts for IMA 86 meeting, July 13-18, Stanford, CA.

April

- 15 Approximate mail date for March/April issue of *The American Mineralogist* in honor of Richard Jahns.

May

- 1 Preregistration deadline for IMA 86 meeting, July 13-18, Stanford, CA.
Deadline for guaranteed housing reservations on Stanford University campus for IMA 86 meeting.
- 9 Approximate mail date for the May issue of *The Lattice*.
- 18 2nd 1986 Council Meeting, Baltimore, MD.

June

- 13 Abstracts deadline for Geological Society of American (GSA) meeting, November 10-13, San Antonio, TX. Abstracts should be sent to GSA.
- 15 Approximate mail date for May/June issue of *The American Mineralogist*.

July

- 1 Deadline for submitting:
Nominations for Roebling Medal
Nominations for MSA Award
Nominations for Fellowship
Nominations for office (1987 ballot)
- 7-12 Pre-meeting IMA Field Trips
- 13-18 14th General Meeting of the International Mineralogical Association (IMA) sponsored by MSA and the U.S. Geological Survey. Stanford University, Stanford, CA.
- 19-27 Post-meeting IMA Field Trips

August

- 1 Deadline for submitting:
Applications for Mineralogy/Petrology Research Grant
1986 Member Ballot
- 15 Approximate mail date for July/August issue of *The American Mineralogist*.

October

- 15 Approximate mail date for September/October issue of *The American Mineralogist*.

November

- 1 Deadline for submitting nominations for 1987 American Mineralogist Undergraduate Award
- 6-9 Stable Isotopes in High Temperature Geological Processes, MSA's Fall Short Course, San Antonio, TX (dates tentative).
- 9 3rd 1986 Council Meeting, San Antonio, TX.
- 10-13 MSA and Geological Society of America Annual Meeting. San Antonio, TX.
- 11 MSA Annual Business Meeting and Luncheon (tentative), San Antonio, TX.
1st 1987 Council Meeting (tentative), San Antonio, TX.

December

- 15 Approximate mail date for November/December issue of *The American Mineralogist*.

February, 1986

Business Office Handles Renewals Without Delays

The MSA Business Office in its new location (1625 I Street, N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344) is up and running. While the month of December was hectic, the new year is shaping up smoothly with increased productivity.

As of January 17, 85 percent of the members, 60 percent of the students, 90 percent of the domestic institutional subscribers, and 70 percent of the foreign institutional subscribers have been renewed. These figures do not include the 100 new members listed in this issue. In addition, approximately 2000 books have been mailed to fill orders since November 1.

As the new members of the staff become acquainted with office procedures and the special activities of the Society, productivity should increase. It is hoped that by early March book orders will be mailed within 3 days of receipt of the order. This is made possible by the fact that we are now able to store six-months inventory of books in the Business Office.

The 1986 calendar in this issue lists the approximate mail dates for the journal issues. Please allow about four weeks for receipt in the U.S., six to eight weeks overseas, and up to 10 weeks if you are located in the Middle East. If, after waiting the applicable period of time, you do not receive the issue please let a staff member know. The staff is aware of the actual mail date and can tell you if a mailing delay was experienced. If not, they will be happy to handle your claim for the missing issue.

In the last year and one-half the number of claims has been reduced dramatically. The ultimate goal is to stop all claims. While this may not be realistic, be assured that your claim will be handled promptly.

Expanded services will be integrated into office procedures as they are identified and upon direction by Council. Two of these are apparent in this issue. The "For Your Information" column will become a regular feature of this newsletter. Also, the list of grants, awards, and scholarships will be repeated periodically so that interested individuals are kept apprised of available awards and deadlines. If you know of additional items of this nature that you would like to see included in the newsletter, please contact Barbara Minich, executive secretary, at the Business Office.

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cosmic Dust;" Ekhard Salje, University of Cambridge, "Application of Order Parameter Theory to the Thermodynamic Properties of Phase Transitions;" Ian Jackson, Australian National University, "The Elasticity of Mantle Minerals;" and Malcolm Ross, U.S. Geological Survey, "The Dangers of 'Asbestos' in Our Environment: Separating Fact from Fiction." (See the Second Circular in the November issue of *The Lattice* for a complete list of symposia topics.)

Workshops and Related Meetings

In addition, two workshops will be held at the meeting. The workshop, "Identification and Characterization of Minerals by X-ray Powder Diffraction" is designed to illustrate some of the specialized uses of x-ray powder diffraction and the Powder Diffraction File in studies of minerals. Some familiarity with identification methods such as the Hanawalt and/or Fink techniques will be assumed. Instructors for the workshop will be D.K. Smith, Pennsylvania State University, P. Bayliss, University of Calgary, and G.J. McCarthy, North Dakota State University.

The Microcomputer Workshop will provide a forum for people who have written microcomputer programs related to mineralogy, crystallography, and/or petrology to exchange ideas and software. Stanford University will supply 20 to 30 IBM PCs and PC/ATs that will be available in a large room for several days during the meeting. There will also be stations for individuals who wish to bring their own microcomputers. Interested participants must submit an abstract and mark the form "Microcomputer Workshop," along with a letter describing your specific computer requirements and whether or not you are bringing your own computer. Workshop convenors will contact participants directly with additional information.

In addition, there will be open meetings of the IMA commissions and working groups, as well as commercial exhibits. A daily program is available for accompanying persons in addition to the evening social program. It will also be possible to arrange scientific visits to the Stanford Synchrotron Radiation Laboratory, as well as other laboratories on campus.

Field Trips

Field trips will be offered before and after the meeting. Assignment to field trips will be on a first-come, first-served basis. **Although it is not necessary to register for the IMA meeting at Stanford to**

attend a field trip, those who do register will be given preference if a field trip is full.

Locations of pre-meeting field trips include: Colorado Rocky Mountain Ore Deposits; New Mexico Pegmatites and Volcanics; Franciscan Blueschists and Eclogite in Northern California; Alaska; and Gem Pegmatites of Southern California. Post-meeting trip sites include: Black Hills, South Dakota; New Idria Region, California; Mineral Deposits of the Great Basin; Hawaiian Island Volcanics; and Regional Metamorphism and Metamorphic Phase Relations in Northeastern and Central New England.

The deadline for submitting field trip registration forms was February 1, 1986. Interested individuals should contact the IMA 86 office immediately at IMA 86, Department of Geology, Stanford University, Stanford, California 94305, or Henry O.A. Meyer at (317) 494-3271. Individuals will be notified directly upon acceptance on a field trip.

Abstracts

Abstracts for both invited and contributed papers will be published as extended abstracts up to two pages in length. Text, including references and diagrams (but not photographs), may be included. Abstracts will be produced directly from the copy submitted; they will not be retyped or typeset. Information about poster size and format will be sent to the authors of contributed papers after receipt of their abstracts. Each first author may submit no more than one contributed abstract, although he/she may be a co-author of other abstracts.

All abstracts must be received no later than March 1, 1986. Abstracts should be sent to Prof. R.J. Kirkpatrick, Department of Geology, 245 Natural History Building, 1301 W. Green Street, University of Illinois, Urbana, IL 61801.

Registration Fees

The registration fee includes the meeting program and abstracts volume, participation in the workshops and the scientific program, two-way transportation between the San Francisco airport and Stanford University (July 13 and July 18-19), a buffet dinner and welcoming party (Sunday July 13), the meeting banquet (Thursday July 17), and a discount on the ticket to the reception at the California Academy of Sciences, Golden Gate Park (Tuesday July 15). The registration fees are as follows:

	if paid by May 1, 1986	if paid after May 1, 1986
Participant	\$170	\$190
Accompanying Person	85	100
Student	75	85

Participants may register at any time prior to the meeting, as well as during the meeting. However, after the May 1 deadline the full fee must be paid. Registration fees for children under 18 years of age will not be charged unless they participate in the social program.

Housing

Housing for most participants will be in Stern Hall of Stanford University. Most of the rooms are for the two people with bath and toilet facilities available on each floor. Participants staying in Stern Hall will be able to eat in the residence cafeteria during the meeting. The cost includes five breakfasts, five lunches, and two dinners. The first meal served will be breakfast on Monday, July 14; the last will be lunch on Friday, July 18. There is a 50 percent discount for children 10 years of age and under.

Housing costs at Stern Hall are as follows:

double occupancy	\$186.75
single occupancy	\$215.50

These prices include five nights lodging, five breakfasts, five lunches, and two dinners served in the cafeteria. Meal rates in the cafeteria are also available to those who choose not to stay on campus. Individuals who will be arriving prior to the meeting or staying after the meeting may pay a per-night cost for lodging only. These prices are available in the Second Circular.

For those wishing other accommodations, there are many motels and hotels adjacent to the Stanford campus. A hotel/motel list is available in the Second Circular. Please note however, that bus service between the hotel and the university campus will not be provided.

Important Dates

February 1	Field trip registration forms due
March 1	Abstract Deadline
May 1	Preregistration Deadline
	Deadline for guaranteed on-campus housing reservations

Address for Correspondence

IMA 1986
Department of Geology
Stanford University
Stanford, CA 94305

Copies of the Second Circular, including registration forms and housing reservation forms may be requested from the MSA Business Office:

MSA
1625 I Street, N.W.
Suite 414
Washington, D.C. 20006
(202) 775-4344

February, 1986

Awards

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Robert H. Cady Award, given by GSA Coal Geology Division to an individual for outstanding contributions considered to advance the field of coal geology in North America. Nomination deadline is February 1 (*GSA, Biennially*).

E.B. Burwell Award, given by GSA Engineering Geology Division to author (s) of a published paper of distinction which advances knowledge concerning principles or practice of engineering geology, or of related fields of applied soil or rock mechanics where the role of geology is emphasized. Nomination deadline is February 1 (*GSA, AS, Annual*).

George P. Woollard Award, given by GSA Geophysics Division to an individual who has contributed in an outstanding manner to geology through the application of principles and techniques of geophysics. Nomination deadline is February 1 (*GSA, AS, Annual*).

G. K. Gilbert Award, given by GSA Planetary Geology Division to an individual who has contributed in an outstanding manner to the solution of a fundamental problem of planetary geology in its broadest sense, including planetary geology, geochemistry, mineralogy, petrology, geophysics, and the field of meteoritics. Nomination deadline is February 1 (*GSA, AS, Annual*).

Alan T. Waterman Award, recognizes an outstanding young researcher in any field of science, mathematics or engineering. Nomination deadline is December 31* (*NSF, AS, Annual*).

J.D. Hanawalt Powder Diffraction Award, given for an important, recent contribution to the field of powder diffraction. Nomination deadline is April 30 (*JCPDS, AS, 3 Years*).

National Medal of Science (*NSF, AS*).

Ian Campbell Award, given in recognition of singular performance in and contribution to the profession of geology (*AGI, AS, Annual*).

William Bowie Medal, given for outstanding contributions to fundamental geophysics and for unselfish cooperation in research (*AGU, Annual*).

Waldo E. Smith Award, given for extraordinary service to geophysics (*AGU, Biennially*).

Walter H. Bucher Medal, awarded for original contributions to the basic knowledge of the earth's crust (*AGU, Biennially*).

Harry H. Hess Medal, awarded for outstanding achievements in research in the constitution and evolution of earth and sister planets (*AGU, Biennially*).

James B. Macelwane Award, given in recognition of significant contributions to the geophysical sciences by a young scientist of outstanding ability. Recipients must be less than 36 years of age on November 1 of the year preceding presentation of the award (*AGU, Annual*).

MSA Research Grant, awarded to support exceptionally promising predoctoral research. Awards (\$3500 each) alternate annually between mineralogy/petrology and crystallography. The Mineralogy/Petrology Research Grant will be awarded in 1987. Application deadline is August 1 (*MSA, AS, Annual*).

American Mineralogist Undergraduate Award, consisting of a certificate and a one-year subscription to *The American Mineralogist*, the award is given in recognition of outstanding performance by an undergraduate student. Nomination deadline is November 1 (*MSA, Annual*).

Minority Participation Program Scholarships, presented by American Geological Institute to Black, Hispanic and Native American students in order to attract science-oriented minority students into one of the geoscience disciplines. Application deadline is February 1 (*AGI, Annual*).

Congressional Science Fellowship. Individual selected spends a year on the staff of a congressional committee or a House or Senate member advising on a wide range of scientific issues. Application deadline is March 17 (*AGU, Annual*).

*Deadline for 1985.

MSA—additional information may be obtained by writing the Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006; (202) 775-4344.

GSA—additional information may be obtained by writing the Geological Society of America, 3300 Penrose Place, Boulder, CO 80301; (303) 447-2020.

AGI—additional information may be obtained by writing the American Geological Institute, 4220 King Street, Alexandria, VA 22302; (703) 379-2480.

AGU—additional information may be obtained by writing the American Geophysical Union, 2000 Florida Avenue N.W., Washington, D.C. 20009; (202) 462-6903.

NSF—additional information may be obtained by writing the National Science Foundation, 1800 G Street N.W., Washington, D.C. 20550 (attn: R. Kazarian); (202) 357-9498.

AS—all scientists are eligible and need not be a member of the sponsoring organization.

Annual—awarded annually.

Biennially—awarded every two years.

3 Years—awarded every three years.

Did you know...

... Work is beginning on the third edition of the *Glossary of Geology* published by the American Geological Institute (AGI). This edition will incorporate modifications and growth of the geoscience vocabulary; the editors are especially interested in changes since 1979. Please send your contributions by April 1 to Julie Jackson, Editor, AGI, 4220 King Street, Alexandria, VA 22302.

... There is an errata sheet for Volume 15, *Mathematical Crystallography*. If you have bought a copy of the book and did not receive a copy of the errata sheet, please contact the Business Office and one will be sent to you.

... Applications are now available for the 1987 Mineralogy/Petrology Research Grant. Applications are due by August 1. The MSA Council will select the recipient at the Third 1986 Council meeting in San Antonio, TX, this November. To request an application, contact the Business Office.

... Nomination forms are now available for fellowship. Individuals interested in nominating an MSA member for fellowship may request the necessary forms from the Business Office. Completed nominations are due by July 1, 1986.

... The cost of publishing a page in *The American Mineralogist* is twice the current page charge of \$50. Thus, it is appreciated that most authors do pay full page charges. Improved paper stock and high quality photographic reproductions are just some of the physical changes being made to upgrade the journal in 1986.

... Volume 12 of the *Reviews in Mineralogy* series, *Fluid Inclusions*, has been a best seller requiring MSA to reprint the volume with some minor changes this Spring. An errata sheet of those changes is available from the Business Office.

... The Index for the 1983 volume of *Mineralogical Abstracts* was mailed to all subscribers the last week of November, 1985. If you have not received your copy, please contact the Business Office. The 1984 Index is expected to be mailed in late May.

Stable Isotopes Topic of 1986 Short Course

Preliminary plans have been made for the 1986 Short Course, Stable Isotopes in High Temperature Geological Processes to be held prior to the MSA/GSA Annual Meeting November 10-13 in San Antonio, TX. The Short Course is tentatively scheduled to run Friday, November 6, through Sunday, November 9, with registration and a social gathering Thursday evening, November 5.

To whet your appetite, the speakers and their tentative topics are listed below. Each speaker will contribute to *Volume 16* of the *Reviews in Mineralogy* series, which will be the text for the course. Full details, including registration fees, will be given in the May newsletter. In the meantime, mark your calendars and plan to attend this state-of-the-science course prior to GSA!

Tentative Topics:

- Introduction:* H. P. Taylor, Jr., CALTECH; J. R. O'Neil, U.S. Geological Survey; J. W. Valley, University of Wisconsin-Madison
- Theoretical and Experimental Aspects of Isotopic Fractionation:* J. R. O'Neil
- Kinetics of Isotopic Exchange Reactions at Elevated Temperatures and Pressures:* D. R. Cole, Oak Ridge National Laboratory; H. Ohmoto, Monasch University
- Isotope Exchange in open and Closed Fluid/Rock Systems:* R. T. Gregory, Monasch University
- Isotopic Effects in the Early History of the Solar System:* R. N. Clayton, University of Chicago
- Isotope Variation in the Mantle:* T. K. Kyser, University of Saskatoon
- Isotopic Relationships Involving Magmatic Fluids:* B. E. Taylor, Geological Survey of Canada
- O + H Isotope Studies of Igneous Rocks: Processes of Isotopic Fractionation:* H. P. Taylor and S. M. F. Sheppard, Nancy, France
- Orogenic Magmatism With Special Reference to the Pacific Margin:* H. P. Taylor
- Anorogenic Magmatism With Special Reference to the African and Eur-Asian Cratons:* S. M. F. Sheppard
- Isotopic Relationships in Meteoric-Hydrothermal Systems:* R. E. Criss, U.S. Geological Survey
- Isotope Systematics of Submarine Hydrothermal Systems:* K. Muehlenbachs, University of Alberta
- Isotope Behavior During Metamorphism:* J. W. Valley
- Stable Isotopes and Ore Genesis:* H. Ohmoto

From the Editor

Changes Designed to Improve Journal Quality

The editorial office of *The American Mineralogist* moved from Dallas to Boulder in November, and I am happy to report that everything is now functioning smoothly. Both I and Mary Eberle, our new managing editor, want to take this opportunity to express our gratitude to Michael J. Holdaway, Southern Methodist University, and Linda Dungan for all the time and effort that they devoted to help us get started on the right foot. Henceforth, please send all manuscripts and editorial correspondence to Department of Geological Sciences, University of Colorado, Boulder, CO 80309-0250. My telephone number is (303) 492-1461 and Mary's is (303) 492-6097.

The *Jahns Memorial Issue* (March/April 1986) has gone to press. This will be the largest issue of *The American Mineralogist* ever published, and will feature 30 papers covering the latest research topics bearing on the mineralogy, petrology, and geochemistry of granitic pegmatites and related rocks. Partly in response to the unusual length of this issue, we have instituted a number of minor format changes designed to save space which, I have learned, is equivalent to saving money. The issue will also be recognizable by its distinctive cover design. If there is a negative factor about special issues, it is the inevitable delay in publication that results for manuscripts already in the normal pipeline. We currently have 51 manuscripts in our office with recommendations to publish. I hope to have much of this backlog published by the end of the year.

The first issue of *The American Mineralogist* printed by Allen Press (January/February 1986) was mailed in mid-February. We are extremely pleased with Allen, and believe that their hard work on our behalf will result in visible improvements in journal quality. When your issue arrives, you might want to check out the inside back cover for an expanded version of "Reminders to Authors." On the right-hand column are a few more examples of commonly used abbreviations, symbols, and units. There are few real changes here, except for adhering more closely to SI guidelines. We are also planning a substantially expanded "Instructions to Authors" article for later in the year.

Speaking of changes, some of you may be interested in the fact that *The American Mineralogist* is now being printed on acid-

free paper, a definite plus for the archivally inclined. Authors take note! Your scientific contributions will be around even longer now, so continue to send us your best work!

You are undoubtedly all aware that the manner in which scientific information is disseminated is rapidly changing. In reflection of this fact, the Publications Committee, chaired by Russell Merrill, Texas A&M University, will be studying alternative ways to process accepted manuscripts. These possibilities could include the option for authors to submit their final version directly on a floppy disk, or producing camera-ready copy of the entire article, as other journals have recently done. Ideally, these changes could result in saving both time and money, and in more rapid publication. I anticipate that the coming years will be a time of growth and change for *The American Mineralogist*, and I am excited about being involved in it. I look forward to receiving your comments and suggestions at any time.

James Munoz
Editor



Editor James L. Munoz, University of Colorado, Boulder (left) and H. Rudy Wenk, University of California, Berkeley, prepare to leave following the Annual Luncheon. Wenk accepted the Roebling Medal on behalf of Francis J. Turner and then presented the medal to Turner at a celebration in Berkeley. Dr. Turner, president of MSA in 1969, passed away in late December.

Two Individuals Join Staff

Two new individuals have joined the staff of the Mineralogical Society of America at the new Business Office. They join staff members Barbara B. Minich, executive secretary, and Mona Tennyson, membership coordinator, who moved with MSA from the American Geophysical Union (AGU).

Susan L. Myers is the new fulltime accountant. Susan brings with her experience in all areas of accounting. Her initial tasks have included the efficient allocation of dues and book orders and designing the format of the general ledger for the new computer system. Having Susan on the staff will provide continuity between the various accounting functions so that financial matters can be handled in a timely and accurate manner.

Winston A. Steverson will be answering the phones and making sure that you receive your books and back issues of the journal on time. As the new administrative assistant, his duties will include order fulfillment; subscriptions to *Mineralogical Abstracts*, *Journal of Petrology*, and *Physics and Chemistry of Minerals*; and maintenance of promotional mailing lists.

Mona, as membership coordinator, will still be responsible for renewing members, processing new members, and handling all claims regarding the journal or book orders. Should you miss an issue or have another type of claim, please contact Mona. She can also supply you with membership applications and price lists.

The addition of the two new individuals brings to four the number of staff working fulltime at the Business Office with the primary goal of servicing the MSA membership. This is approximately the same number of manhours spent while MSA was managed by AGU. The difference being the fact that these individuals concentrate fulltime on just MSA activities.

It is hoped that the MSA membership sees an improvement in the service offered and in the types of activities performed by the staff. If you have questions, please feel free to contact us!

THANKS!

Many thanks to all the members who have written or telephoned to say that they will be sending frangible prints for the walls of the new Business Office. We look forward to having some colorful, interesting items to look at!

February, 1986

For Your Information

The Society of Economic Paleontologists and Mineralogists (SEPM) announces the Third Annual Midyear Meeting to be held in Raleigh, NC. SEPM will celebrate 60 years during the September 26-28, 1986 meeting. The Fourth Annual Midyear Meeting is scheduled for Austin, TX, September 11-14, 1987. Contact SEPM, P.O. Box 4756, Tulsa, OK 74159, (918) 743-9765, for information on both meetings.

Suggestions for symposia (oral and poster presentations), workshops, or short courses are being sought for the 28th International Geological Congress. The meeting is to be held in Washington, D.C., July 9-19, 1989. The scientific program will consist of symposia and regular sessions covering the latest developments in the basic and applied earth sciences. Please send your suggestions to the MSA Business Office, 1625 I Street N.W., Suite 414, Washington, D.C. 20006.

Two concentrated courses will be held at the State University of New York in Albany this summer. The 23rd Annual Short Summer Course in X-ray Powder Diffraction will be held June 16-20 and again June 23-27. The 23rd Annual short summer course in X-ray spectrometry will be held June 2-6 and again June 9-13. For more information on either course contact Professor Henry Chessin, Department of Physics, 1400 Washington Avenue, SUNY, Albany, NY 12222.

In Memoriam

We regret to announce the passing of the following MSA members and fellows. MSA extends its condolences to the families of these scientists.

- Clifford J. Awald
Member, 1957
- Eleanor M. Learned
Member, 1960
- Richards A. Rowland
Life Fellow, 1940
- Leonard B. Sand
Fellow, 1953
- Donald W. Scott
Life Member, 1947
- Francis J. Turner
Life Fellow, 1947
1985 Roebling Medalist
1969 President
- W. Martin Wadewitz
Member, 1961

The Colorado Chapter of Friends of Mineralogy is holding a Colorado Pegmatite Symposium May 30-June 2, 1986. The four-day symposium will be held at the Denver Museum of Natural History, Denver, CO. The program includes two days of lectures (Friday-Saturday) and two days of field trips (Sunday-Monday) to Colorado pegmatite localities. For more information contact Peter J. Modreski, co-chair, Colorado Pegmatite Symposium, Geology Department, Denver Museum of Natural History, City Park, Denver, CO 80205.

Geocongress '86 is scheduled for Johannesburg, South Africa, July 7-17, 1986. For more information contact The Symposium Secretariat S.339, CSIR, P.O. Box 395, Pretoria, South Africa 0001.

Proceedings of the IV Chilean Geological Congress held in Antofagasta, Chile, August 19-24, 1985 is now available. The proceedings include 132 papers on Chilean and South American geology; Spanish and English abstracts. The price is \$70, plus postage and handling. For more information contact Director, Departamento de Geociencias, University del Norte, Casilla (Box) 1280, Antofagasta, Chile.

Directory Changes

Please make the following changes in your 1985-1988 *Membership Directory*.

- Borg, Iris Y., (F-67), page 3
- Gebhard, Georg, Reidsaot 1 should be D-5226 Reichshof 1, page 7
- Heritsch, Hyamo, correct spelling is Haymo, page 9
- James, Odette, (LF-67), page 10
- Meyer, Andreas, O: 06762-1011, page 13
- Oberholzer, Walter F., Eth should be E.T.H., page 15
- Stanjek, Helge, Freising-Weihestenhan should be Freising-Weihestephan, page 19
- Thompson, Alan Bruce, Eth should be E.T.H., page 20
- Trommsdorff, E. Volkmar, Eth should be E.T.H., page 20
- Zimmerman, V.W.E., first name should be Uwe, address should be Bettenweg 19, 6332 Ehringhausen 2, West Germany, page 23

If your address or telephone number is incorrect in the *Directory*, please send a note to the Business Office with the correct information.

Welcome!

The following members and students have joined MSA effective January 1, 1986. Welcome! Applications for membership may be obtained from the Business Office, 625 I Street N.W., Suite 414, Washington, D.C. 20006. Memberships received from October 1 through December 31, 1986 will be made effective January 1, 1987 unless otherwise requested.

Abitz, Richard J., Dept of Geology, University of New Mexico, Albuquerque, NM 87131. O: (505) 277-1640. (ST-86) IP Sponsor: R. C. Ewing.

Alexis-Riter, Joyce C., 2440 Deming Avenue, Columbus, OH 43202. H: (614) 263-1616. (ST-86) IP Sponsors: P. H. Ribbe and J. W. Downs.

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Andes, Jerry P., 1243 Miramar Drive, Fullerton, CA 92631. O: (714) 787-4545. H: (714) 879-9179. (ST-86) EG Sponsors: M. A. McKibben and L. Cohen.

Anstiss, Richard G., Chemistry Division/DSIR, Private Bag, Pretone, New Zealand. O: 04666919. (ST-86) GE Sponsors: T. M. Seward and J. R. Ruaya.

Arculus, Richard John, Dept of Geological Sciences, University of Michigan, Ann Arbor, MI 48109. O: (313) 763-5348. H: (313) 995-9207. (M-86) IP Sponsors: E. J. Essene and R. D. Holmes.

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Barr, Sandra M., Dept of Geology, Acadia University, Wolfville, Nova Scotia, B0P 1X0 Canada. O: (902) 542-2201. H: (902) 542-2606. (M-86) IP Sponsors: L. J. Cabri and A. P. Sabina.

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