The Annual MSA Awards Luncheon
San Diego, October 22, 1991

Roebling Medalist E-An Zen is pictured with his citationist, Susan Kieffer, and President Malcom Ross.

H. Catherine W. Skinner, recipient of the Public Service Award, is pictured with her citationist Kenneth M. Towe, and President Ross.

After the luncheon, Malcolm Ross, now Past-President, happily passed the gavel to our Society's new President, Michael Holdaway.

MSA Short Courses:

**Minerals and Reactions at the Atomic Scale: High Resolution TEM**
October 23-25, 1992 (before GSA)

*Organizer:* Peter R. Buseck (Arizona State University).

*Goals:* to introduce principles of HRTEM operation, to provide a background in the use of TEM as a mineralogic and petrologic tool, and to explore applications and ways in which TEM can augment our knowledge of mineral structures, chemistry and origin.

*Topics and speakers:* general principles of TEM; EELS and electron channeling [= ALCHEMI] (P.R. Buseck); electron diffraction—SAED and CBED (J. Steeds); HR image formation, simulation and analysis (P. Self); analytical theory and applications; diagenetic processes—clays and shales (D.R. Peacor); non-stoichiometry, polysomatism and reactions (D.R. Veblen); polytypism and stacking disorder (A. Baronne); phase definition (F. Allen); carbonates (R.J. Reeder); deformation in geological materials (D. Green); transformation-induced microstructures (G.L. Nord).

*Location:* Hueston Woods State Park near Oxford, Ohio.

There will be at least one TEM for "hands-on" demonstrations and exercises. To register, write to the MSA office.

**Physical Properties of Minerals**
December 4-6, 1992 (before Fall AGU)

*Organizer:* Subrata Ghose (University of Washington).

*Day 1:* microscopic theory that serves as a basis for understanding macroscopic physical properties of minerals and materials. *Days 2 and 3:* theory, experimental techniques of measurement, and results.

*Topics and speakers:* band theory and electronic structure (R.E. Cohen); lattice and molecular dynamics; theory and experiment (S.L. Chaplot, R.J. Hemley); thermal expansion, compressibility and equations of state (H.K. Mao, Y.W. Fei); symmetry and physical properties (S. Ghose); elasticity (D.J. Weidner); piezoelectricity and ferroelectricity (R.E. Newnham); magnetic properties (J.M.D. Coey); electrical conductivity (A.G. Duba); diffusion (J. Ganguly); deformation and creep (J.P. Poirier); and ceramic applications of silicates (G. Beall).

*Location:* Marconi Conference Center in a state historic park overlooking scenic Tomales Bay, an easy drive from the San Francisco Bay area.

For registration form, write or call the MSA office.
FROM THE PRESIDENT

I accepted the gavel from retiring President Mac Ross, confident that he has led us through the worst of a financially difficult period. Highlights of the past year included: publication of the largest ever (2062-page) volume of the American Mineralogist, a journal which continues to grow in national and international reputation in the fields of mineralogy, crystallography, mineral physics and petrology; publication of the J. B. Thompson Issue of the Mineralogist, with 30 articles by Jim’s colleagues and students; a successful Lecture Program with lectures by Darby Dyar and Harry McSweeney; and completion of short courses and associated Reviews in Mineralogy: Volume 25, "Oxide Minerals" edited by Don Lindsley, and Volume 26, "Contact Metamorphism" edited by Derrill Kerrick.

A subject deserving considerable attention is the financial state of MSA. At the 1990 GSA meetings, Council decided to transfer substantial funds from the endowment to pay for the Thompson Issue and to publish the growing number of papers being submitted to the Mineralogist. This was done to avoid a large backlog of manuscripts awaiting publication. Even though Council approved a deficit budget, the projected loss for 1991 will be greater than budgeted, primarily as a result of greater than expected costs for the Mineralogist, The Lattice, and the short courses. The 1992 budget is also in the red, but by a much smaller amount. Council has taken steps to alleviate this problem. Dues and subscription rates were increased for 1992 by amounts designed to minimize loss of members and subscribers, and the prices of Reviews will be increased slightly. This year we have budgeted the American Mineralogist for a total of 1344 pages. This size is commensurate with the number of manuscripts presently being considered for publication, if reports are trimmed slightly in size and if the rejection rate is increased somewhat. Editors Bohlen and Seabold tell us that they can maintain a minimal backlog and publish a high-quality journal at this size. Council resolved to no longer publish dedicated issues of the American Mineralogist. The Lattice has been restricted to 12 pages for most issues: Editor Flohr is in agreement with this.

Finally, Council has taken steps to eliminate financial losses for future short courses, which are supposedly budgeted to break even. The net effect of the Society’s fiscal problems will be a $200,000 transfer from endowment over a three year period, primarily as a result of greater than expected rejection rates. Editors Bohlen and Seabold tell us that they can maintain a minimal backlog and publish a high-quality journal at this size. Council resolved to no longer publish dedicated issues of the American Mineralogist. The Lattice has been restricted to 12 pages for most issues: Editor Flohr is in agreement with this.

The third 1990 Council Meeting of MSA was held on October 20, 1990 at the San Diego meeting of GSA, with Mac Ross presiding. Council selected Hatten S. Yoder, Jr. to receive the Roebling Medal and Jonathan Stebbins to receive the MSA Award. Congratulations, Hat and Jonathan!

The third Council meeting also included discussion of the reports of the various MSA officers and committees. The Tellers Committee reported the election of Alexandra Navrotsky as Vice-President, Stephen Guggenheim as Secretary, and Joseph Smyth and Michael Hochella as Councilors. David Veblen will extend his term of office to complete the term of Rosemary Buden, who resigned. Susan Myers reported that the Business Office is running smoothly and efforts are being made to cut costs wherever possible. The 1991-92 MSA Lecture Program, supervised by Henry Meyer, will have Barbara Dutrow and David Veblen as Lecturers.

The Committee on External Medals and Awards was disbanded due to the fact that the Committee has had great difficulty identifying specific awards and people to promote for such awards. Roberta Millard of Queen’s University was selected for the biennial Crystallography Research Grant. The following 13 members were selected for fellowship: Ross Angel, John Cheney, Stefan Graeser, Ian Grey, Paul Hess, Roderick Hill, Guy Hovis, Erling Krogh, Peter Leavens, Stephen Ludington, Bruce Nesbitt, Nancy Ross, and Robert Woodil.

On the morning of October 22, Mac Ross gave his presidential address, entitled "Crystalline Solution Series and Order-Disorder within the Natrolite Mineral Group." Mac related crystallography and chemistry for the natrolite group and cleared up a number of misunderstandings in our knowledge of these zeolites. The audience was especially interested in the excellent illustrations of crystal structures. That evening, the MSA/Geochmical Society reception was well attended by members of both societies.

The first Council Meeting of 1992 was held the evening of October 22. Our newly elected officers were introduced. Charlie Gilbert, AGI Representative, reported on the AGI Council Meeting of October 21 and noted that AGI is beginning its Geoscience Advocacy program with a full-time person to act as an advocate for the earth sciences in Washington. Council decided not to support the program beyond MSA’s regular contribution to AGI at the present time. AGI’s K-12 education initiative was discussed, and Maria Luisa Crawford volunteered to head a committee to provide an outline for
FROM THE PRESIDENT, continued

The 16th General Meeting of the International Mineralogical Association will be held in Pisa, Italy, 4-8 September 1994.

The scientific part of the Meeting will consist of five invited plenary lectures, symposia, and poster sessions. The program will focus on recent aspects of research in all mineralogical fields, including mineralogy, petrology, geochemistry, ore deposits, and applied mineralogy. Emphasis will be given to subjects, such as: (a) recent volcanism and geothermal systems; (b) high pressure metamorphism; (c) mantle mineralogy: experimental results and theoretical approaches; (d) modular mineralogy: polytypism and polysomatism; (e) thermodynamic properties of minerals and crystal structure modelling. Following an IMA tradition, all commissions and working groups are invited to propose topics for the symposia. The Organizing Committee will add complementary symposia in order to achieve a comprehensive scientific program covering all fields of mineralogy. They will include oral invited and contributed papers. Open sessions of oral contributed papers are not planned; emphasis will be placed on high quality poster sessions.

The Organizing Committee intends to publish 'Extended Abstracts' like those for the 14th General Meeting in Stanford, but no 'General Proceedings.' The Committee will encourage conveners of symposia to publish the proceedings of their symposia in international mineralogical journals.

The following field excursions are planned:

- High pressure metamorphism in the Western Alps (B. Messiga)
- Orogenic peridotites from the Western Alps and Northern Apennines (G.B. Piccardo, G. Rivalenti)
- Mineralogy, petrology, and ore deposits of Sardinia (C.A. Ricci)
- Recent magmatic rocks and ore deposits of the Tuscan anatectic province (G. Marinelli, G. Ferrara, G. Tanelli)
- Pegmatites of the central Alps and their minerals (A. Mottana)
- Volcanoes of the Neapolitan area: Vesuvius, Ischia, and Phlegraean fields (R. Santacroce, L. Civetta)
- Active volcanoes of Sicily: Aeolian islands and Etna (F. Innocenti, L. Villari)
- Minerals and ornamental stones of Tuscany (M. Franzini)
- Stones: from the quarries to the monuments (M. Franzini)
- Archeological and natural heritage of the mineral resources of Tuscany (G. Tanelli)

The First Circular will be sent to all national representatives in early 1992. To receive a personal copy, please return the following form to:

Prof. S. Merlino, Organizing Committee, IMA 1994
Dipartimento di Scienze della Terra, University of Pisa, Via S. Maria 53, 56100 Pisa, ITALY
Fax: 0039-(0)50-500932
E-mail: MINER at ICNUCEVM

The Lattice/3
WELCOME!

Welcome to new members and students who have joined MSA effective January 1, 1991.

Applications for membership may be obtained from the Business Office, 1130 Seventeenth St. N.W., Suite 330, Washington, DC 20036.

Only sponsors other than MSA are noted.


Fluegge, Armin  University of Kiel, Boninstr. 68, 2300 Kiel, Germany. (ST-91)GE.  Sponsors: Friedrich Liebau, John Schumacher.

Fujino, Kiyoishi  Dept. of Geology & Geophysics, University of Minnesota, Minneapolis, MN 55455.  O:(612)624-6541.  H:(612)488-6329.  (M-91)MI.


Gaynor, Gary R.  P.O. Box 581121, Minneapolis, MN 55418-1211.  O:(612)724-8349.  (M-91)CC.


Harms, Udo  Merkurweg 1-3, 4330 Mulheim/Ruhr, Germany.  O:011 49 208 55926.  (M-91)MP.


Iain, Mark  P.O. Box 628, Alief, TX 77411.  O:(713)945-5655.  (M-91)IP.


King, Penelope L. 33 Norman Street, Deakin, ACT, Australia 2600.  O:(06)2492056.  (ST-91)IP.  Sponsors: Charlotte Allen, B.W. Chappell.


Krutchevans, Gabriela E. Institut fUr Mineralogie, Brennstrasse 24, 4400 Münster, Germany.  (ST-91).


Miller, Christopher  Dept. of Geological Sciences, Ohio State University, Columbus, OH 43210.  O:(614)292-0641.  H:(614)299-4042.  (ST-91)MP.

Morton, Penelope Dept. of Geology, University of Minnesota, Duluth, MN 55812.  O:(218)726-7962.  H:(218)728-2591.  (M-91).

Muskett, Reginald R. 9314 Cherry Hill Road, #1116, College Park, MD 20740.  O:(202)227-4125.  H:(301)474-3862.  (M-91).


Sponsors: Malcolm Ross, Howard T. Evans, Jr.


ABSTRACTORS FOR
MINERALOGICAL ABSTRACTS

The Council of MSA gratefully recognizes the following members for their services as abstractors for Mineralogical Abstracts.

Abstractor | Assignment [State ± Journal]
--- | ---
John H. Barnes | Ohio New Jersey, Norelco Publications, *Doklady Earth Sciences*
Bruce Bathurst | 
Earl Bennett | New Hampshire, Northeastern Geology *Analytical Chemistry*
Wallace A. Bothner | 
Adrian Brearley | 
Philip Brown | *Economic Geology, 1989*
David P. Bucke | Vermont *
Donald Burt | Arizona *
Bryan Chakourmakos | Maine, New Mexico *
Steven Chamberlain | *Rocks & Minerals*
Hughbert Collier | Texas *
Maria Louisa Crawford | Pennsylvania *J. Sed. Petrol. (1988 to date)*
Wilbert Danner | 
Richard V. Dietrich | Virginia, *American Scientist*
Gary Glass | Wyoming *
Norman Gray | Connecticut *
Wallace Gwynn | Utah *
George E. Harlow | Massachusetts, New York, Staten Island, *Institute of Arts and Proceedings*
O. Don Hermes | Rhode Island *
Norman Herz | Georgia *
Rhiann H. Jones | Meteoritics *
Ronald Konig | Arkansas, Oklahoma *
Peter B. Leavens | Delaware, *New Jersey Ioschon West, Mountain Geology, Colorado, New Mexico*
Robert G. Luedke | *Soviet Physics Doklady*
Steven A. Markgraf | 
Brian Mason | *J. Geophys. Res.* (meteorites)
Ralph Nafziger | U.S. Bureau of Mines *

Smithsonian Institution
Research Fellowships and Internships

Applications are due January 15, 1992 for the Smithsonian Institution's research fellowships and internships for 1992. Fellowships support independent research in residence at the Smithsonian in association with research staff. Students are given use of the Institution's resources. In Earth Sciences areas, proposals may address mineralogy, meteoritics, paleobiology, petrology, planetary geology, sedimentology, and volcanology. Awards cover predoctoral and postdoctoral fellowships for 6-12 months, and graduate student appointments for 10 weeks. Stipends are $26,000 per year plus allowances for postdoctoral fellows, $13,000 per year plus allowances for predoctoral fellows, and $3,000 per year for graduate students. For more information and application forms, write

Smithsonian Institution, Office of Fellowships and Grants, Suite 7300, 955 L'Enfant Plaza, Washington, DC 20560.

Indicate research area and dates of degrees received or expected.

EDITOR'S NOTE: Efforts are being made to reduce the cost of publishing The Lattice. That accounts for the new "in-house" formatting and layout. Many thanks to Paul Ribbe for his work on this issue.

Marta Flohr

November 1991

Now available: New Survey of Collection Regulations

Regulations governing geological, paleontological, and archaeological collecting on state lands are in place in all states. An updated survey of the collection regulations is available in a 1991 report from the American Museum of Natural History. The report is written by Robert M. West, director of Cranbrook Institute of Science. Based on existing legislation and current reports from regulating agencies and projections derived from upcoming legislation, the report describes the state-by-state and discipline-by-discipline regulations and statutes. Names, addresses, and special responsibilities of the agencies are included. The report is available at cost ($5.00, including postage) from American Museum of Natural History, Special Publications, Central Park West at 79th St., New York, NY 10024.

Make checks to the American Museum of Natural History.

IN MEMORIAM

We are saddened to report the deaths of the following members.

Paul Desautels, Fellow, 1957
E. William Heinrich, Life Fellow, 1944

Marta Flohr

The Lattice/7
**CONTACT METAMORPHISM**

**Derrill M. Kerrick, Editor**

- Overview of Contact Metamorphism: D. M. Kerrick
- Chemical and Physical Characterization of Plutons: G. W. Bergantz
- Chemical and Physical Properties of Fluids: T. C. Labotka
- Phase Equilibria and Thermobarometry of Metapelites: D. R. M. Pattison & R. J. Tracy
- Phase Equilibria and Thermobarometry of Calcaceous, Ultramafic and Mafic Rocks, and Iron Formations: R. J. Tracy & B. R. Frost
- Metasomatism: M. D. Barton, R. P. Ilchik & M. A. Marikos
- Dehydration and Decarbonation Reactions as a Record of Fluid Infiltration: J. M. Ferry
- Stable Isotope Monitors: P. L. Nabelek
- Modelling Thermal Regimes: K. P. Furlong, R. B. Hanson & J. R. Bowers
- Kinetics of Coarsening and Diffusion-Controlled Mineral Growth: R. L. Joesten
- Kinetics of Heterogeneous Reactions: D. M. Kerrick, A. C. Lasaga & S. P. Raeburn
- Aureole Systematics: M. D. Barton, J.-M. Staude, E. A. Snow & D. A. Johnson

Series Editor: Paul H. Ribbe

MINERALOGICAL SOCIETY OF AMERICA

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**Fall '91 Short Course on CONTACT METAMORPHISM**

The contents of our largest volume ever — 847 pages! — are shown to the left. Volume 26 of the *Reviews in Mineralogy* series was edited by Derrill Kerrick of Penn State and is available for purchase immediately.

The prepaid price is only US$26.00 (including postage and handling) for non-members, US$18.20 for members of MSA.

**MSA-NIC Meeting Report**

Following the MSA luncheon in San Diego on October 22, a dozen MSA members met with Catherine Hawkes of the National Institute for the Conservation of Cultural Property (NIC) to describe the preservation and conservation needs of earth science collections in this country. NIC has held twenty such meetings with discipline-specific natural science organizations to gather data and develop a report on conservation challenges facing the natural science community. Hopefully, NIC's report will be as compelling as those that led to the development of the National Heritage Preservation Program administered by the National Endowment for the Humanities.