

The Lattice

The Newsletter of the
Mineralogical Society
of America

Subscription and membership
information
is on page three.

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50- and 25-Year MSA Members

The following individuals reach 50 or 25 years of continuous membership in the Society during 2002. Their long support of the Society is appreciated and is recognized by this list and by 25- or 50-year pins mailed in early January. If you should be on this list and are not, or have not received your pin, please contact the Business Office.

50-year Members

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Dr. Donald B. Hoover
Dr. Ryohei Morimoto
Dr. Frederick A. Mumpton
Dr. Ernst Niggli
Dr. Richard A. Robie
Dr. Masaru Yamaguchi
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Dr. Edward Stolper
Dr. Peter Thy
Mr. Marc L. Wilson
Dr. Wendell E. Wilson
Dr. Michael E. Zolensky

Members nominate outstanding students in mineralogy for society's undergraduate award

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

Continued on page 6

2002 candidates for MSA offices

The following is the slate of officer candidates for the Council year 2003:

President:

Douglas Rumble III, Carnegie Institution

Vice Presidential nominees:

Michael A. Carpenter, University of Cambridge
Harry Y. (Hap) McSween, Jr., University of Tennessee

Treasurer:

James G. Blencoe, Oak Ridge National Lab

Councilors: (in alphabetical order)

Lukas P. Baumgartner, Johannes Gutenberg University
Rebecca A. Lange, University of Michigan
Barb Dutrow, Louisiana State University
Jean Morrison, University Southern California

Letter from the President



Profiling

by Rod Ewing

Profiling, the use of race or ethnicity as a basis for screening a person's intentions, has been much in the news during the past year. Fortunately, common decency and the law require that we look beyond the superficial attributes of an individual before ascribing a motive to his or her actions. Still, profiling has been advocated by some, as in screening airline passengers, because it is "efficient," not requiring as much thought and analysis of the person or the situation. Many, particularly the victims of profiling, vehemently protest the approach because it is offensive to the individual and the

group. Still, the evident human need to group or pigeonhole individuals remains a strong force in the interactions between individuals and their groups or tribes.

I wonder if "profiling" on the basis of scientific discipline is not also part of the same phenomenon. Since I became president of MSA, I have been impressed by the evident need to "profile" sub-disciplines in mineralogy and the historical trend toward dividing into smaller and smaller groups. Some colleagues have expressed concern that we establish a boundary between mineralogy and geochemistry. Evidently, there is a need to have

boundaries, so that one can avoid "crossing-over" to the other side. Others have expressed concern for the lack of balance between "mineralogists" and "petrologists" on committees. Some have worried that we have too many "petrology" papers in the *American Mineralogist*, others are concerned for the lack of enough "mineral physics" papers. For others, the structures of rare minerals seem not to add enough scientific value to the needs of petrology and geochemistry. Mineral physics is generally understood to include research in the high-pressure and high-temperature regimes, but usually is not

taken to include the theory or calculations of low-temperature interactions at the atomic scale across surfaces. Some researchers are dismissed because their work is too "applied"; others are praised because their work is purely "fundamental," but criticized because it is not "relevant." Those who attempt to synthesize global phenomena are too "qualitative." Those who perform precise atomic-scale simulations are too "narrow." I am sure that we all have experienced some unpleasantness from this disciplinary "profiling" and have been guilty of the same. We all suffer the normal human failing of see-

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ing all of the details and nuances in our own work, while being entirely comfortable in lumping the work of others into broad categories – with a value judgment attached in added measure. This behavior is so fundamentally tribal, it would be more efficient if we wore identifying feathers and sea shells around our necks so that we could quickly distinguish ourselves from the members of other tribes.

In many ways such behavior is natural for any group or discipline that grows and develops with time, adapting to new opportunities and situations. Historically, the Mineralogical Society of America has spawned other societies, such as the Clay Minerals Society. New journals, such as the *Physics and Chemistry of Minerals* or the *Journal of Petrology*, grew out of the need to find appropriate and welcoming venues for publication as each field expanded to address new questions. As scientific communities grow, it is natural to expect a proliferation of societies and journals. Each group has its own focused interests and publishes for a rather specific audience of practitioners. This is normal, but what is not normal or useful is that this diversification can lead to labels that fragment a discipline, and this is my fear for mineral science.

Even by the broadest definition, mineral science is much too small a field to tolerate this type of fragmentation. If one adds the memberships of the various mineralogical and geochemical societies, the number is probably no more than 5000 (considering that many of us have overlapping memberships). With such small numbers, we simply cannot afford the luxury of dividing into smaller and smaller tribes. We have to constantly redefine who we are and what we do so that we include the widest range of activities in solid-state science. Previous MSA presidents have discussed the declining role of mineralogy in geoscience departments or the declining number of MSA members from North America. I suggest that the declining numbers and lessening impact are, in part, a result of our own narrow definition of the topics appropriate to mineral science.

I can contrast the present state of mineral science with that of materials science, a field that historically has grown out of metallurgy departments, many of which were originally associated with mining engineering departments. The Materials Research Society is just over 25 years old (one of its founders, Rustum Roy at Penn State, was an MSA Awardee). I joined the MRS in 1979; at that time, MRS had approximately 1500 members (fewer than MSA at that time). This year MRS has over 12,000 members. This does not include the members of the eleven MRS-type societies around the world (MRS-Europe, MRS-Russia, MRS-China, MRS-Japan, MRS-India, etc. that comprise the International Union of Materials Research Societies). In contrast to mineral science, the philosophy of MRS is that any topic in solid-state science is fair game for their meetings—electronic materials, biomaterials, metals, polymers, semi-conductors, wood, high pressure mineral physics—the list is only limited by the imagination of meeting organizers. This type of disciplinary diversity is not easily managed, but I am not sure that there is a need to manage the role or place of the different topics within the discipline. The intellectual ferment is well worth the irritation of the clamor of the different voices from

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

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

Membership benefits include: *American Mineralogist*, published bi-monthly; 25% discount on volumes in the *Reviews in Mineralogy and Geochemistry* series; *The Lattice*; special subscription rates for *Mineralogical Abstracts*, *Physics and Chemistry of Minerals*, *Journal of Petrology*, *Rocks and Minerals*, and *Mineralogical Record*; reduced registration fees at MSA short courses; member rates for the MSA/Geological Society of America annual meeting and member rates at MSA's spring meeting with the American Geophysical Union; participation in a Society that supports the many facets of mineralogy.

Dues for 2002: professional members \$50; student members \$5. *American Mineralogist* subscription: members add \$35 (paper and electronic); \$10 electronic. Membership is on a calendar year basis. Individuals who join after January 1, 2002 will be sent all back issues of volume 86 for 2002.

Additional membership information and an application, and/or a price list of the Society's publications are elsewhere in this newsletter, or contact the Business Office.

Institutions may subscribe to the 2002 volume of *American Mineralogist* for the annual rate of \$530 in the US and \$550 for non-US addresses. The subscription price includes any new volumes of the *Reviews in Mineralogy and Geochemistry* series and issues of the *Lattice* published during the calendar year of the subscription. Payment must be received in full before a subscription will be started.

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MSA Executive Director: J. Alexander Speer

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MSA Award and Office and Nominations

Member participation is essential to the formation and continuation of MSA programs. Involvement can take many forms, but for the moment we are asking you to nominate someone for an award, volunteer to serve on a committee next year, or offer your name or that of a colleague as a possible committee member or candidate for office. It is through the involvement of individual members that the Society's programs develop to meet the needs of its members. Please take a minute to read the brief descriptions below about needed candidates and consider making a nomination. More information about each award and the list of 2002 MSA Officers, Councilors, Committee members, MSA Fellows, and past awardees are available at the MSA website at www.minsocam.org. If there is someone you feel that should appear in one of those lists, and does not, contact the appropriate Committee Chair with your recommendations.

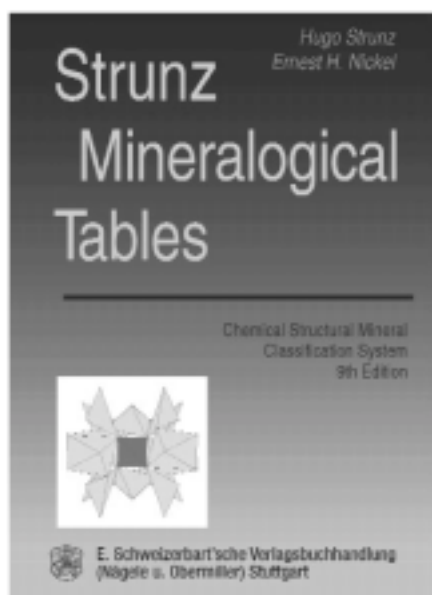
Award/Office	Deadline	Committee Chair
The Roebing Medal is MSA's highest award and is given for eminence as represented by outstanding published original research in mineralogy.	June 1	David L. Bish Geology and Geochemistry Los Alamos National Laboratory, Mail Stop D469 LosAlamos, NM 87545 ph: (505) 667-1165 fax: (505) 665-3285 e-mail: bish@lanl.gov
The Dana Medal is intended to recognize continued outstanding scientific contributions through original research in the mineralogical sciences by an individual in the midst of their career.	June 1	Jeffrey E. Post Mineral Sciences NHB 119 Smithsonian Institution Washington, DC 20560-0119 Tel: (202) 357-4009 Fax: (202) 357-2476 E-mail: post.jeffrey@nmnh.si.edu
Mineralogical Society of America Award is give for outstanding published contribution(s) prior to 35th birthday or within 7 years of the Ph.D.	June 1	Kathryn L. Nagy University of Colorado at Boulder Department of Geological Sciences Campus Box 399 Boulder, CO 80309-0399 tel: (303) 492-6187 fax: (303) 492-2606 e-mail: nagyk@spot.colorado.edu
Distinguished Public Service Medal is awarded for distinguished contributions to public policy and awareness about mineralogical topics.	June 1	Gordon E. Brown, Jr. Stanford University Dept Geol & Environ Sci Stanford, CA 94305-2115 Tel: (650) 723-9168 Fax: (650) 725-2199 e-mail: gordon@pangea.stanford.edu
Society Fellowship is the recognition of a member's significant scientific contributions. Nomination is undertaken by one member with two members acting as co-sponsors. Form required, contact committee chair or MSA home page.	June 1	J. G. Liou Stanford University Dept Geol & Environ Sci Palo Alto, CA 94305-2115 Tel: (415) 723-2716 Fax: (415) 725-2199 E-mail: liou@pangea.stanford.edu
MSA Office is open to any non-student 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 Councilors.	June 1	Craig E. Manning Univ California-Los Angeles Dept Earth & Space Sciences Los Angeles, CA 90095-1567 Tel: (310) 206-3290 Fax: (213) 825-2779 E-mail: manning@ess.ucla.edu
Committee membership is open to any member or fellow of the Society. Terms usually from one to six years. In addition to above committees, there are committees on Meetings, Lecture program, Short courses, Research Grants, Best Paper, Benefactors, Finances, Committees, Outreach, Arts Council open to members. If you are interested in serving, contact the chair.	April 30	Douglas Rumble Carnegie Inst. Washington Geophysical Lab 5251 Broad Branch Rd NW Washington, DC 20015-1305 Tel: (202) 686-2410 x8990 Fax: (202) 686-2419 E-mail: rumble@gl.ciw.edu

Check out the MSA web site: www.minsocam.org

E. Schweizerbart



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Strunz Mineralogical Tables

**Chemical Structural Mineral
Classification System**

by HUGO STRUNZ and ERNEST H. NICKEL 2001. X, 870 pages, with 226 figures,
bound, 17 x 24 cm, ISBN 3-510-65188-X, € 148,- / US-\$ 142.-

Mineralogical Tables, first established as *Mineralogische Tabellen* by Hugo Strunz in 1941, have gone through eight editions, numerous reprints and translations. This ninth, completely new English-language edition is fully revised and updated and incorporates a large number of data on new minerals and new data on previously described minerals.

Mineralogical Tables uses a chemical-structural mineral classification system based on the same general principles as those embodied in earlier editions: All minerals are apportioned into one of ten classes according to their principal anionic constituents. Each of these ten classes is then broken down into divisions, subdivisions and groups, based on chemical composition and crystal structure. A simple alphanumeric coding system is applied to the various categories. This coding system has intentional gaps that permit the insertion of new categories of minerals yet to be discovered without disrupting the general classification scheme. The data are presented in tabular form, with minerals grouped by structure type, and include the chemical formula and crystallographic parameters for each mineral, as well as the authors and reference to the original mineral description. Literature references to reports of crystal structure determinations and to the more recent descriptive papers are also provided. Each group is accompanied by a brief description of the crystal structures of the minerals comprising the group, and crystal-structure drawings are given for many of the important structure types.

Audience: Mineralogists, Earth Scientists, serious mineral collectors



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President, Continued from page 3
each group.

Where does MSA stand in its effort to include and embrace the different parts of the mineral science community? In fact, we are not doing too badly. As an example consider the recently presented awards of the MSA. We recognized the work and contributions of a petrologist, crystallographer and a crystal chemist. Their degrees, in various combinations, are in geology, physics and chemistry. By our own awkward and Byzantine process, we actually do recognize the work and contributions of a wide variety of disciplines among our peers. Recognition comes more slowly to some than to others. Some never receive their just recognition, and this is our failure to look beyond the stereotypes or tribes of our own sub-disciplines and make a fair and accurate evaluation of the contributions of others. We have to guard against this. We have to be sure that committees are well balanced. But we also have to guard against "profiling" our colleagues in a way that puts distance between their efforts and our own. Good science should look the same regardless of its guise or purpose.

Research is prospering in the solid-state sciences, and the landscape around mineral science has changed. In fact, our disciplinary niche has expanded—but we have to occupy this space, or others will. If you are concerned by the direction that MSA is taking, then play an active role in the Society. By your own effort make the Society what it should be, but do not be surprised if you are jostled by others going in the opposite direction with a different perspective and sense of what is important.

Resist the temptation to "profile". Broaden the scope of mineral science.

Outstanding Students, Continued from page 1

receives a *Reviews in Mineralogy* or *Monograph* volume chosen by the sponsor, student, or both. Past AMU awardees are listed on the MSA website.

Deadlines for nominating students are January 1 and July 1 of each year. Mark these dates on your calendars and let us know about your exceptional student. If you are interested in presenting the award at a particular ceremony, please remember that time is required to produce certificates and have letters signed. To nominate a student, send a letter on departmental letterhead to Dr. J. Alexander Speer, MSA Business Office, 1015 Eighteenth St. NW Ste 601, Washington, DC 20036-5212, USA. With the nomination, please include the student's full name that would be suitable for the certificate, a mailing address for the student that will be current at the time the award is made, year in school, the MSA sponsor's name, **the choice of *Reviews in Mineralogy* or *Monograph***, and the date and brief description of the award ceremony at which the certificate will be presented. The letter must be signed or co-signed by the department chair.

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

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Mount Holyoke College
Sponsored by Dr. Steven R. Dunn

Nathan C. Cardoos
Williams College
Sponsored by Dr. Reinhard A. Wobus

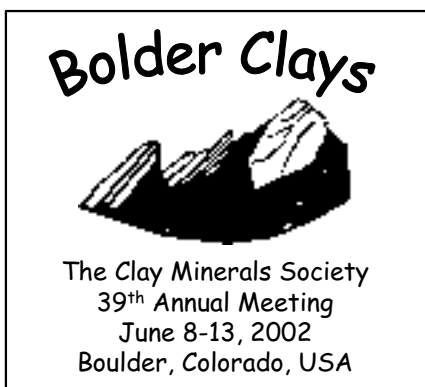
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Workshop:
Teaching Clay Science
Saturday, June 8
Audrey Rule & Stephen Guggenheim

Field Trip:
Clays and the Front Range
Thursday, June 13
Dan Kile

Symposia:
Clay Membrane Processes
Computational and Experimental Chemistry of Nanomaterials in Aqueous Systems
Interactions of Microbes with Clay Minerals
Isotopic Tracing and Dating of Clay Mineral Processes in Diverse Crustal Environments
Mineralogy and Petrology of Mudrocks: Geological and Industrial Applications
Structure, Crystal Chemistry, and Surface Reactivity of Environmental Minerals

Meeting Chairs
Kathryn Nagy 303-492-6187 (phone); 303-492-2602 (fax); kathryn.nagy@colorado.edu
Dennis Eberl 303-541-3028 (phone); 303-447-2505 (fax); ddeberl@usgs.gov
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Details may be obtained from the MSA Business Office: J. Alex Speer, Mineralogical Society of America, 1015 Eighteenth Street, N. W., Suite 601, Washington D. C. 20036, Telephone: 202-775-4344, Fax: 202-775-0018, E-mail: business@minsocam.org. Electronic advertisements in tiff or eps formats, or Word (**text only**), can be accepted, and should be sent directly to the MSA Business Office.

American Mineralogist thanks reviewers of 2001

The quality of the journal depends on the hard work and generosity of our reviewers. Reviewers analyze papers for errors and omissions in science methodology, research, explanations, and so on. They determine if the discussion is complete and sensible. They offer advice on the organization and grammar involved with creating a paper the author can be proud of. No one stands alone in science; all authors owe thanks, as we do, for our thoughtful and critical reviews.

Allan, D.	Delaney, J.	Hafner, S.	Liebau, F.	Roeder, P.
Allen, C.	Devourard, B.	Hanchar, J.	Lobo, R.	Ross, N.
Anderson, A.T.	Diamond, L.	Hargraves, B.	London, D.	Rossmann, G.
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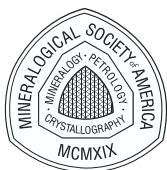
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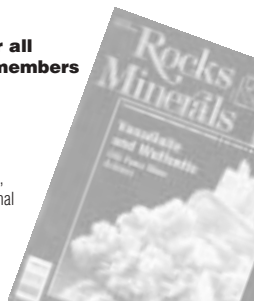
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Plastic Deformation and Deformation Structures of Minerals
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Meetings Calendar 2002

APRIL

1–5 Materials Research Society Spring Meeting. San Francisco, California, USA. Details: Materials Research Society, 506 Keystone Drive, PA 15086-7573, USA. Telephone: 724-779-3003. Fax: 724-779-8313. E-mail: info@mrs.org. Web page: <http://www.mrs.org/meetings/spring2002/>.

MAY

19–24 International Basement Tectonics Association Meeting. Rolla, MO, USA. Details: John P. Hogan, Department of Geology and Geophysics, University of Missouri-Rolla, Rolla, MO 65409-0410. Phone: (573) 364-4618. Fax: (573) 341-6935. E-mail: jhogan@umr.edu

20–24 The Sixth International Symposium on the Geochemistry of the Earth's Surface (GES-6). Honolulu, Hawaii USA. Details: GES-6 Symposium Secretariat, UH Department of Oceanography, 1000 Pope Road, MSB 525, Honolulu, HI USA 96822. phone: +1-808-956-6344; fax: +1-808-956-7112. Email: ges6@soest.hawaii.edu. Web page: <http://www.soest.hawaii.edu/oceanography/ges-6/>

25–30 American Crystallographic Association Annual Meeting. San Antonio, Texas. Details: Wally Cordes. E-mail: wcordes@comp.uark.edu. Web page: <http://www.hwi.buffalo.edu/ACA/ACA-Annual/futuremeetings.html>

27–29 47th Joint Annual Meeting of the Geological Association of Canada and the Mineralogical Association of Canada. Saskatoon, Canada. Details: Mel Stauffer, Depart-

ment of Geological Sciences, University of Saskatchewan, 114 Science Place Saskatoon SK Canada S7N 5E2. E-mail: mel.stauffer@usask.ca. Web page: <http://www.usask.ca/geology/sask2002/index.html>

May 28–June 1 AGU 2002 Spring Meeting. Washington, DC. Details: AGU Meetings Department, 2000 Florida Avenue, NW, Washington, DC 20009. Phone: 1-800-966-2481. Fax: +1-202-328-0566. Email: meetinginfo@agu.org.

JUNE

3–7 Zeolite '02. Thessaloniki, Greece. Details: Dr. Panagiotis Misaelides, Assoc. Professor, Department of Chemistry, Aristotle University, P. O. Box 1547, GR-54006 Thessaloniki, GREECE. Tel.: ++30 31 99 77 89, Fax: ++30 31 99 77 53. Email: misailid@chem.auth.gr. Web page: <http://www.chem.auth.gr/activities/zeo2002>

8–13 Annual Meeting of the Clay Minerals Society. Boulder, Colorado, USA. Details: Co-Chair: Kathryn L. Nagy, Associate Professor, University of Colorado at Boulder, Department of Geological Sciences, Campus Box 399, Boulder, CO 80309-0399 Email: nagyk@spot.colorado.edu. Web page: <http://www.colorado.edu/geolsci/cms/>

June 30–July 5 16th Australian Geological Convention. Adelaide, Australia. Details: The Organising Committee, 16th AGC, PO Box 6129, Halifax Street, Adelaide, South Australia 5000 Australia. Tel: +618 8227 0252; Fax: +618 8227 0251. E-mail: 16thagc@sapro.com.au. Web page: <http://www.16thagc.sga.org.au/>

JULY

21–26 The 65th meeting of the Meteoritical Society. Los Angeles, California, USA. Details: Dr. Paul H. Warren, Institute of Geophysics & Planetary Physics, UCLA, Los Angeles, CA, 90095-1567. phone 310-825-3202, fax 310-206-3051. Email: pwarren@ucla.edu. Web page: <http://www.uark.edu/campus-resources/metsoc/newmeet.htm>.

21–25 9th International Platinum Symposium. Billings, MT, USA. Details: Roger Cooper, Dept. of Geology, Lamar University, P.O. Box 10031, Beaumont, TX 77710, USA. Phone: 409-880-8239. E-mail: cooperrw@hal.lamar.edu. Web page: <http://www.platinumsymposium.org>.

22–27 11th Quadrennial IAGOD Symposium and GEOCONGRESS 2002. Windhoek, Namibia. Details: The Secretary, IAGOD/GEO-CONGRESS 2002, P.O. Box 44283, Linden 2104, South Africa. E-mail: gssa@pop.onwe.co.za. Web page: <http://www.geoconference2002.com>.

22–26 ICSTR: Fifth International Conference on Solvo-Thermal Reactions. East Brunswick, New Jersey. Details: Professor Richard E. Riman, Phone 732-445-4946, fax 732-445-6262. email: riman@email.rci.rutgers.edu. Web page: <http://www.ICSTR.rutgers.edu>

AUGUST

6–15 19th Congress and General Assembly of the International Union of Crystallography. Geneva, Switzerland. Details: Congress Secretariat, XIX Congress and General Assembly of the IUCr, P.O. Box

50006, Tel Aviv 61500, Israel. Tel: 972 3 5140000. Fax: 972 3 5140077. e-mail: iucr@kenes.com. Web page: <http://www.kenes.com/iucr/index.html>

17–23 12th V.M. Goldschmidt Conference incorporating ICOG X. Davos, Switzerland. Details: Prof. A. Halliday, Institut fur Min. und Petrographie, ETH-Zentrum, CH-8092, Zurich. Email: halliday@erdw.ethz.ch. Web page: <http://www.goldschmidt-conference.com/gold2002/>.

SEPTEMBER

1–6 Mineralogy for the new Millennium (IMA 2002): 18th general Meeting of the International Mineralogical Association. Edinburgh, Scotland. Details: Mr. K. Murphy, Executive secretary, Mineralogical Society of Great Britain and Ireland, 41 Queen's Gate, London SW7 5HR, United Kingdom. Phone: 44 171 584 7516. Email: IMA@minersoc.demon.co.uk. Web page: <http://www.minersoc.org/IMA2002>.

2–3 Transport and Flow Processes within Shear Zones: Joint International Research Meeting of the Tectonic Studies Group, Geological Society of London. London, England. Details: Ian Alsop, Crustal Geodynamics Group, School of Geography & Geosciences, University of St. Andrews, Fife, Scotland, KY16 9AL, U.K. E-mail: gia@st-andrews.ac.uk. Web page: http://www.st-and.ac.uk/~www_sgg/tsg2001.html

9–11 Iron Ore 2002. Perth, Australia. Details: Angie Spry, Publications Coordinator. Fax (03) 9662 3662. e-mail: publications@ausimm.com.au. Web page: http://www.ausimm.com/events/event_writeups/ironore.

asp

10–11 Uranium 2002—Uranium deposits from their genesis to their environmental aspects. Prague, Czech Republic. Details: Bohdan Kribek, Czech Geological Survey, Geologická 6, CZ–152 00 Praha 5, Czech Republic. Tel., Fax: +420-2-5817390. E-mail: kribek@cgu.cz. Web page: <http://xrd.cgu.cz/uranium.htm>.

12–14 The Moon Beyond 2002: Next Steps in Lunar Science and Exploration. Taos, New Mexico. Details: David J. Lawrence, Space and Atmospheric Sciences, NIS-1, Mail Stop D466, br. Los Alamos, NM 87545. Phone: (505) 667-0945 Fax: (505) 665-7395. Email: djlawrence@lanl.gov. Web page: <http://www.lpi.usra.edu/meetings/moon2002/>

OCTOBER

6– 10 The Minerals, Metals & Materials Society 2002

Annual Fall Meeting. Columbus, OH. Details: TMS Programming Department, 184 Thorn Hill Road, Warrendale, Pennsylvania 15086. Tel. (724) 776-9000, ext. 237; fax (724) 776-3770. E-mail: ckobert@tms.org. Web page: <http://www.tms.org/Meetings/Fall2002/Fall2002.html>.

11–14 Mineral Diversity—Research and Preservation. Sofia, Bulgaria. Details: Organizing Committee, Earth and Man National Museum, 4, Cherny Vrah Blvd., 1421 Sofia, Bulgaria. phone (+359 2) 656 639; Fax (+359 2) 661455. E-mail: mindiv@web.bg. Web page: <http://www.lam.mus.ca.us/~smmp/meetings.htm>.

27–30 Geological Society of America Annual meeting. Denver, CO, USA. Details: GSA Meetings, Box 9140, Boulder, Colo. 80301-9140. Phone: +1-303-447-2020, ext. 164. Fax: +1-303-447-1133. E-mail: meetings@geosociety.org.

Web page: <http://www.geosociety.org/meetings/index.htm>.

DECEMBER

2–6 Materials Research Society Fall Meeting. Boston, MA USA. Details: Materials Research Society, 506 Keystone Drive, PA 15086-7573, USA. Tel: 724-779-3003. Fax: 724-779-8313. E-mail info@mrs.org. Web page: <http://www.mrs.org/meetings/fall2001/>

6–10 AGU 2002 Fall Meeting. San Francisco, CA, USA. Details: AGU Meetings Department, 2000 Florida Avenue, NW, Washington, DC 20009. Phone: +1-202-462-6900 (in D.C. or outside North America) or 1-800-966-2481 (toll-free in North America). Fax: +1-202-328-0566. E-mail: meetinginfo@agu.org. Web page: <http://www.agu.org/meetings>.

Email: meetinginfo@agu.org. Web page: <http://www.agu.org/meetings>.

Member News

Dr. Alexandra Navrotsky, of the University of California at Davis, has been awarded the 2002 Benjamin Franklin Medal in Earth Science. Through its awards program, the Franklin Institute, founded in 1824, seeks to provide public recognition and encouragement of excellence in science and technology. Dr. Navrotsky was cited for her “wide spectrum of accomplishments in crystal chemistry that have contributed to the fields of bonding energies, ceramic and materials research, chemical equilibria, geology, mantle petrology, and thermodynamics. For example, her findings have established the identity of materials at hundreds of kilometers of depth in the Earth that otherwise are inaccessible to direct observation.”

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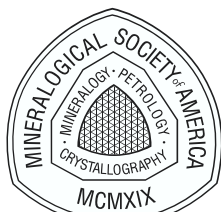
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The Grant for Research in Crystallography is a **US\$5000** grant. There are no restrictions on how the grant funds may be spent, as long as they are used in support of research. The only restrictions on eligibility for the grant are that the applicant must have reached his or her 25th birthday but not yet have reached his or her 36th birthday on the date the grant is given, and that the person is not a MSA Counselor.

MSA Grants for Student Research in Mineralogy and Petrology comprise two **US\$5000** grants. Students, including graduate and undergraduate students, are encouraged to apply. There are no restrictions on how the grant funds may be spent, as long as they are used in support of research.



Selection will be based on the qualifications of the applicant, the quality, innovativeness, and scientific significance of the research, and the likelihood of success of the project. Grants will be made in January 2003. There are no restrictions on how the grant funds may be spent, as long as they are used in support of research. Application instructions and forms for the grants may be obtained from the MSA home page, <http://www.minsocam.org> or Dr. J. Alex Speer, MSA Business Office, 1015 Eighteenth St NW Ste 601, Washington, DC 20036-5212, USA (ph: 202-775-4344, fax: 202-775-0018, e-mail: j_a_speer@minsocam.org). Completed applications must be received by June 1, 2002.

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