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The Lattice

The Newsletter of the Mineralogical Society of America

Subscription and membership information is on page three.

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Institutional subscribers are entitled to electronic access to American Mineralogist; contact business@minsocam.org to give us your IP address.

Three retiring mineralogists/petrologists to be recognized at GSA-Seattle

GSA 2003 promises to be an outstanding meeting for petrology and mineralogy. Mike Brown and Barb Dutrow have organized a symposium (with an additional topical session) entitled "Modeling Metamorphism." In addition, three outstanding scientists will be honored by topical session and a reception in their honor. Nancy Ross and her fellow mineralogists are planning a celebration in honor of Charles Prewitt, who is receiving the Roebling Medal this year and retiring from the Geophysical Laboratory. Hanna Nekvasil and Ron Frost have organized topical session T138 entitled "From Oxides to Anorthosites: A tribute to D.H. Lindsley." Last but not least, the retirement of Gary Ernst from Stanford will be recognized by ERNSTFEST 03, organized by Bill Carlson, Mark Cloos, M. Charles Gilbert, J. G. (Louie) Liou, Doug Rumble, and Sorena Sorensen. This will include topical session 141 entitled "Phase Relations, high P/T terrains, P-T-ometry, and Plate Pushing: a tribute to W. Gary Ernst."

The honorees have decided that instead of separate receptions, they'd prefer to have one event, so the organizers are planning to host a terrific party for these three giants of mineralogy and petrology, in addition to the topical sessions that will be scheduled for the meeting. The preliminary responses have been enthusiastically positive. If you'd like to participate in one of the

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GeoScienceWorld Progress Report March 31, 2003

GeoScienceWorld, the multi-society aggregation of geoscience society electronic journals, is making significant progress. We expect to have the final business, marketing, and technical plan completed this summer. A steering committee with one representative from each of the founding societies (AAPG, AGI, GSA, GSL, MSA, SEG, SEPM) has been working with a business and marketing plan consultant and a technical consultant to develop the aggregation. A discussion draft of the business and marketing plan is under review by the steering committee, and we are preparing to obtain bids for outsourcing the technical components of the project.

The geoscience community has enthusiastically embraced the concept of a geoscience electronic journal aggregation. We have contacted 45 potential participating publishers, in addition to the seven founding societies, and thus far we have 30 journals that are interested in participating (pending the final version of the business plan) and 7 more that wish to be kept appraised of our progress. We have not yet heard from some non-North American journals and some published by university presses. Journals invited to participate are all peer-reviewed, high quality, regularly appearing earth and space science journals; publishers are non-profit professional societies and university presses, and internationally based journals are published in English.

Establishment and progress of volunteer advisory committees:

The Technical Evaluations Committee has evaluated the technical requirements for the aggregation, the feasibility, reliability of various technical models, and the relative costs of each technology. On the basis of their report, we anticipate the optimal solution will be a hybrid approach that combines use of a vendor (or broker) to accommodate the smaller societies and a distributed model that connects several independent platforms. However, we need to better assess the electronic

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Letter from the President

Presidents, Meetings, and Volumes

by Doug Rumble MSA President 2002-2003

Dear MSA members:

THE THREE PRESIDENTS

A special sense of excitement is building for the joint meeting of the MSA and GSA in Seattle, November 2–5. A constellation of three former MSA Presidential stars will be honored for their successful careers as researchers and teachers in the mineralogical sciences. C. T. Prewitt will receive the Roebling medal at MSA's award luncheon on Tuesday, in recognition of outstanding research accomplishments. W. G. Ernst and D. H. Lindsley will be honored by dedicated scientific sessions on the occasion of their retirements. A major party, organized by H. Nekvasil, N. Ross, and S. Sorenson, will celebrate the accomplishments of all three of our distinguished MSA Presidents. Preliminary information is elsewhere in *The Lattice*. Please consult the August issue of *The Lattice* for final schedule information.

JOINTLY SPONSORED MEETINGS

MSA does not organize its own meetings. The Society opportunistically takes advantage of the logistical support afforded by societies with established meetings in order to broaden the exposure of mineralogical sciences to the wider research community. MSA annually co-sponsors the Fall meeting with the Geological Society of America and, in spring-time, has co-sponsored meetings with the American Geophysical Union, the Geochemical Society (Goldschmidt conference), and the Clay Minerals Society. The practice of co-sponsorship benefits members who belong to more than one scientific society not to mention a savings in cost to the Society. The Spring meeting this year is cosponsored by the Clay Minerals Society and will take place in the Classic Center, University of Georgia, Athens, Georgia, June 7–12. The local organizing team for the joint CMS-MSA meeting, headed by P. A. Schroeder, has planned an exciting program of plenary lectures, technical sessions, and symposia, as well as

workshops and field trips. Information on the meeting is available at: http://www.gly.uga.edu/CMS2003/index.html

RIMG VOLUMES

This Spring saw two short courses accompanied by the publication of two new RIMG volumes. The MSA sponsored a short course on Zircon, organized by J. Hanchar, held prior to the EGS-AGU-EUG joint assembly. At the same time, the Geochemical Society sponsored a short course on Uranium Series Geochemistry. The two new volumes join an unprecedented plethora of new RIMG publications to bring the total number published to 53. These volumes are most important in the effort to provide data on Mineralogical Sciences to the broadest possible scientific audience. The MSA is indebted to those who volunteered to organize, write, teach, and edit for the short courses and RIMG volumes. The large cash expenditures for printing the many new volumes are now being offset by rapidly increasing sales.

IN MEMORIAM

Jose L. Amorós (Life Fellow - 1953)
Mary E. Mrose (Life Fellow - 1946)

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 2003: 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, 2003 will be sent all back issues of volume 88 for 2003.

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 2003 volume of *American Mineralogist* for the annual rate of $580 in the US and $600 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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Notes from Washington

by J. Alexander Speer, MSA Executive Director

• Ballots for the 2003 election of 2004 MSA officers and councilors were mailed to members at the beginning of April 2003. They are due back in the Business Office by August 1, 2003. Voting is an important duty for MSA members. The individuals you elect to office decide on the direction of the Society. Second (paper) dues renewal notices were sent to those 2002 members from whom we had not received a 2003 renewal through March 31, 2003. If you have not yet received a ballot, or a renewal notice if you need one, please contact the MSA Business Office. This will be the last *Lattice* mailing to members who have not renewed for 2003.

• Normally the May *Lattice* contains all the news from the MSA Spring Council Meeting. Among the more important decisions the Council makes at that meeting is setting dues and subscription rates. The Council Meeting in the past was during May. It is also the reason the May *Lattice* was perpetually late. This year the Spring MSA Council meeting is June 7. It was decided not to wait until after that meeting to produce the May *Lattice*. The August *Lattice* will have the news from the Spring Council Meeting.

• 2003 is the first year that an institutional or library *American Mineralogist* subscription includes access to the online version. If your institution subscribes to the journal, and would like electronic access, it is simple to make the request. A library needs to tell us who they are and their IP or range of IP addresses. The information should be sent to business@minsocam.org.

It appears that almost half of MSA's institutional subscribers have requested access to the online version of the *American Mineralogist* thus far. If you accessed the full text articles from one of those institution's computers you may have noticed that you were no longer asked for a member ID or password. You had immediate access to the article. However, a subscribing member can still access the full-text articles from any computer that is not part of a subscribing institutional network with their member ID and password. For this you will need to keep MSA informed about your most current e-mail address.

The electronic access appears to be relatively problem free. The most commonly encountered problems are computers that are not configured properly to read pdf files online or that have older versions of browser and Adobe Acrobat reader software. A few non-US subscribers use servers that make it difficult for their computers and the MSA website computer to recognize each other. This same quirky problem can extend to other secure areas of the MSA website such as online renewals, ordering, and short course registration. As you can imagine, these sorts of problems are difficult to diagnose let alone fix. MSA acting as a technical help line is one reason online publishing is far from cheap. I am also developing a greater appreciation for why computer and software support lines are such reluctant services.

• Many of you who renewed during December and January experienced a delay in processing your renewal and any accompanying book orders. We received close to 1000 renewals and orders in the last 2 weeks of December, and several hundred in early January. This phenomenon probably reflected the deadline-driven world of MSA members. Many wanted to take advantage the reduced dues rate if they renewed by year's end. December 31 became a must meet deadline.

MSA is not staffed to handle expeditiously such an uncommon peak load, but rather an average volume of business. Staffing for the peak load would increase member costs significantly. It took a while to work through this backlog. Delays were compounded by several other developments. Many accompanying book orders were larger than usual because of the large number of recent and new *Reviews*. Working against us was the snowy winter in the DC area. In addition to the 24-inch snowfall that made the news, we also had snowfalls about every other week through the winter months that often prevented the staff from making it in. Adding further injury to those who ordered publications, we noticed distinct slowing of outgoing mail deliveries starting in the Fall. This was especially severe for surface overseas mailings. The mail had to compete with a large amount of other materials going overseas, most likely to the Middle East. Overseas shipments seemed to take a few weeks longer than usual. We appreciate MSA members who were patient during this time. We will have to arrive at a process that evens out the receipt of renewals and orders.

• There are two new MSA-GS publications since the February *Lattice* - Reviews in Mineralogy and Geochemistry; Volume 51: *Plastic Deformation of Minerals and Rocks*, 2002, Shun-ichiro Karato and Hans-Rudi Wenk, editors and Volume 52: Volume 52: *Uranium-series Geochemistry*, 2003, Bernard Bourdon, Gideon M. Henderson, Craig C. Lundstrom, and Simon P. Turner, editors. These are described more fully on the MSA website, and you can order your copy using the order form elsewhere in this issue, online, or by mail, e-mail, phone, or fax.

• MSA has joined with the European Mineralogical Union (EMU) and Elsevier in a new type of venture - the *Virtual Journal - Experimental Earth*. It is an electronic (bi-)monthly "publication" containing a listing of the latest articles on experimental earth sciences. Article overviews are given in a table of contents. Each is linked to the abstracts and full text of the respective article. If you select a listed article from *American Mineralogist*, it will bring you to that article on the MSA website. Scientists can join a service that will alert them when a new issue appears. The alerting service, the Table of Contents and abstracts are freely accessible. The full text of the articles are only accessible to institutional and member sub-

scribers of the respective source journals.

The *Virtual Journal - Experimental Earth* highlights journal articles in experimental mineralogy, petrology, geochemistry, geophysics, volcanology and tectonics which are published in eleven top-rated international journals (*American Mineralogist*, *European Journal of Mineralogy*, *Earth and Planetary Science Letters*, *Geochimica et Cosmochimica Acta*, *Chemical Geology*, *Journal of Volcanology and Geothermal Research*, *Lithos*, *Physics of the Earth and Planetary Interiors*, *Tectonophysics*, *Physics and Chemistry of the Earth*, and *Applied Geochemistry*). Other publishers have also been invited to participate.

Papers taking an experimental approach to the earth sciences appear in a wide range of journals. Given the increasing interdisciplinary nature of the solid earth sciences, it is important that these papers and the journals that contain them become more widely known and easily accessible to possible users. In the past, the solutions to this problem would be to either establish a new and separate publication, or add new sections to abstracting publications and encourage people to take the time to look there for new papers in their field. The *Virtual Journal - Experimental Earth* functions as a much more rapid notification about new papers without the disadvantages of starting a new journal. MSA hopes that the venture will draw attention to articles appearing in *American Mineralogist* by a much wider audience and much sooner.

Virtual Journal - Experimental Earth is currently at <http://earth.elsevier.com/experimentalearth/> though its address will soon change to <http://www.ExperimentalEarth.com>. If you are interested in the experimental approach, and you just do not have the time for that trip to the library to browse the new publications, periodically visit the site or consider joining the alert service.

• Thus far this year, the MSA booth was at the Tucson Gem and Mineral Show, Tucson, AZ, February 13-16, 2003. MSA will have a booth at the CMS-MSA Joint Meeting, Athens, GA June 7-11, 2003, and GSA Meeting, Seattle, Washington, October 27-30, 2003. MSA will also have all of its usual social and technical functions at GSA. The Geochemical Society will shoulder the responsibility for displaying MSA materials at Goldschmidt Conference, Kurashiki, Japan, September 7-12, 2003.

• The ad from the Geological Society London (GSL) offering ***Rock-Forming Minerals Volume 4A: Framework Silicates: Feldspars*** by W. A. Deer, R. A. Howie, and J. Zussman to MSA members at reduced prices re-appears in this issue. The offer is available for a limited time. If you are interested consider taking advantage of the offer now.

• Yakov Kapusta reviewed Reviews in Mineralogy and Geochemistry volume 47 *Noble Gases* in *Canadian Mineralogist* v. 40, pp. 1737-1742.

25th FM-TGMS-MSA Mineralogical Symposium: Gold

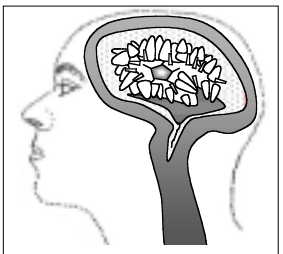
in conjunction with the
Tucson Gem and Mineral Show
Saturday February 14, 2003

The twenty-fifth annual Mineralogical Symposium will be held on February 14, 2004 at the Tucson Gem and Mineral Show. The Friends of Mineralogy (FM), the Tucson Gem and Mineral Society (TGMS), and the Mineralogical Society of America (MSA) cosponsor it. The topic of the symposium is Gold, the Tucson Show's theme for 2004. Papers on descriptive mineralogy, paragenesis, classic and new locations, and related subjects about gold are welcome. An audience of amateur and professional mineralogists and geologists is expected.

Anyone wanting to present a paper should submit a 200 to 300 word abstract to: Dr. Robert B. Cook, Auburn University, Department of Geology and Geography, Auburn University, AL 36849-5305: phone (334) 844-4891; fax: (334) 844-4486, e-mail: cookrob@auburn.edu.

Presentations will twenty minutes, followed by a period for questions. Abstracts must be submitted by September 21, 2003.

Pegmatite Interest Group



Are you interested in the mineralogy and geology of pegmatites? If so, visit the website for the Pegmatite Interest Group (PIG), hosted by the Mineralogical Society of America at

http://www.minsocam.org/msa/Pegmatites.html

Keep up on news, events, & information about pegmatites and their minerals. Current postings include a field guide to pegmatites in Madagascar, a report on a new elbaite-bearing pegmatite in the Italian Alps, and weekly updates on gem mining at the Cryo Genie pegmatite, southern California.

Send contributions to the PIG site in electronic formats only to Dr. David London (editor and MSA representative) at

dlondon.ou.edu.

All about Special Issues

by Rachel A. Russell, *American Mineralogist* Managing Editor

Coming this fall, there will be two special issues of the *American Mineralogist*. The first one is being guided by special associate editors George Lager and Mark Welch on the topic of high-pressure hydrous materials. The next one is being guided by a team of four special associate editors: Jill Pasteris, John Jambor, Udo Becker and Greg Lumpkin, and this topic is Environmental Mineralogy. Special theme papers that are not published in a separate issue normally appear before the regular articles, but after Letters, in their issue of the journal (for example, the Holdaway Commemorative Issue, vol. 87 issue no. 4). Occasionally an entire issue will be devoted to the topic (for example, the Anderson volume, vol. 85, issue no. 2). And then, occasionally, an actual separate book will be printed and mailed with the regular volume (as a part of the volume, but in its own cover). We have several more special issues in the works for 2004. How do special issues get started? What do you need to know to organize one? Here are some tips and information, as well as a look ahead into 2004.

Normally, a special issue seems to arise out of a symposium or meeting. In the planning phase of the meeting someone will think ahead and wonder, "where can all these great papers be published?" At that point, the person contacts one of the editors of American Mineralogist, Robert Dymek or Lee Groat and gives the pitch. After discussion about the topic and the authors, the editors decide to either pass or explore the situation further. There are office workload and MSA finances to consider as well.

One key factor to make a special issue work is a person with the willingness to be a special associate editor. As with our normal associate editors, this means guiding the papers through peer review and revision and using our web-based system to do so. Unlike a normal associate editor, who likely handles about 10 papers in a year, a special editor would be handling all the papers all at once and staying on a time frame. This often means finding a partner to split the load. Before any final commitment is made to go forward with a special issue, there must be someone eager to be a special associate editor.

In my opinion it helps to have been a regular AE first. If you are planning ahead for a special issue to run in 2005 or 2006, I suggest volunteering to be an associate editor in 2004 and handle several regular papers.

At this point, when the editors and special AE have agreed, they involve me. Through emails and talking if necessary we set an ideal print date. Working back from that date determines the submission deadline. I put the information on the web site, and set it to allow submissions for the "Manuscript Type" of "solid rock issue", for example. For budgetary purposes the special AE must be able to give me some sort of ballpark figure for size — do they expect there to be 6 really long articles? 22 short five-page papers? 11 papers of a mixture? We can adjust later to some extent, but if your special issue gets this far, this information is vital to ensuring we can economically continue to have special issues!

Then the special AE has to get busy and contact all the potential authors who thought it would be a good idea to have a special issue and make sure they know the deadline. A formal "Call for Papers" can be put in The Lattice. An announcement can run on the MSA email announcement list. Communicating the submission deadline – recruiting the papers — is vital to the success of the project.

As the papers are submitted, they are assigned to the special AE, who finds reviewers, studies the reviews and the papers to give the author guidance for the revision process, and then recommends acceptance (and sometimes rejection) to the editors. One of the editors, as for every paper in the journal, does a close edit and read of each paper to make sure nothing slipped through the cracks, the science is adequate, and edits the language for grammar, content, and style. And then they send the accepted papers to us at the editorial office!

So what is coming up for 2004? Quite the variety: Clathrate Hydrates led by Bryan Chakoukous; Albee commemorative issue led by Ted Labotka; and Monazites led by Robert Tracy and Jim Williams. Be sure to see the Call for Papers for a special issue on Clathrate Hydrates elsewhere in this issue of the *Lattice*. There might also be another special Environmental Mineralogy section, depending on how things go with the first one! In other words, 2004 is scheduled to be a bonus year for *American Mineralogist!*

Call for Papers

for a special issue of the American Mineralogist on Clathrate Hydrates

Natural gas hydrates are abundant and widespread in terrestrial ocean sediments and artic permafrost, as well as in many different extraterrestrial icy bodies of the solar system, and therefore are of multidisciplinary interest. Topics that will be included in this special issue are crystal structure, measurements of physical and thermodynamical properties, kinetic, phase equilibria, and high pressure studies, carbon dioxide sequestration, etc.

The submission deadline is October 1, 2003 for an expected October 2004 publication date. All manuscripts will undergo standard *American Mineralogist* review procedures. For more information contact: Bryan Chakoumakos, Oak Ridge National Laboratory, kou@ornl.gov, 865-574-5235 (voice), 865-574-6268 (fax), for further information.

GeoScienceWorld Progress Report, continued from page 1

status and needs of the potential participating societies and the real costs of the various models before deciding on the technical model. The technical committee is in the process of issuing requests for proposals (RFP's) for both a hybrid model and a full vendor model, and we will be sending these out for bids in the next couple weeks. We are also sending societies that have expressed an interest in participating a questionnaire to determine their electronic status, needs, and preferences.

The Librarian Advisory Committee, composed of 7 academic, 2 industry, and 2 government (U.S. and U.K) librarians, is providing critical advice from the library community. The committee has evaluated technical features and other aspects of other electronic journals and aggregations and has provided input on journal selection, whether to include GeoRef as an adjunct to the journal full text, and on the relative priorities in the current library environment for spending on print versus electronic and current versus archival content. The committee will also provide advice on pricing models and subscriber site licensing agreements.

The potential Participating Publishers Advisory Committee has just been set up to provide us with input from other publishers (outside of the group of seven founding organizations) during the final stages of the aggregation development. Issues to be addressed include journal selection and criteria, strategic and financial priorities of participating publishers, technical models and digital formats, third-party vendor assistance, and revenue sharing and pricing models.

Over the last few months we have come to a consensus on the composition and attributes of the proposed aggregation. Key decisions include:

Product: The initial launch will feature a Millennium Collection, which will consist of a full-text, online-accessible aggregation of geoscience journals issued from January 2000 forward. Features will include searching of full-text and figure captions for all journals in the aggregation, and of all geoscience literature through GeoRef, with linking between reference and cited articles through CrossRef. Other expected features include HTML and PDF (searchable) full text, searches using a controlled vocabulary, the ability to limit searches to subsets, clear identification of journal and society "brand" identity, public access to all abstracts, links to enhanced data sets, and a good overall look to pages. In addition we anticipate a linked Legacy Collection, which will consist of linked, searchable electronic back issues (pre-2000) in any format of as many society journals as possible. Societies that choose to participate in the Millennium Collection may also choose to make their Legacy Collection available through GeoScienceWorld, but that will most likely be optional.

Market: The initial market will be libraries, institutions, and organizations, but we will build individual member access options into the longer-term business plan and introduce these once the aggregation is established. Initially, libraries will be required to purchase the entire package, but as the aggregation grows, we will have modules by discipline that can be purchased separately. We have also developed a model for bringing the aggregation to less developed countries as a further effort to maximize dissemination and visibility for our participating journals, to the benefit of our science.

Content providers: Participating publishers will be offered the opportunity for non-exclusive participation and will be compensated from a revenue-sharing pool for their content using a formula based on actual online usage and amount of material posted, as well as journal conversion expenses.

Remaining tasks and timeline: Tasks remaining include making a final decision on the technical model and selecting the vendor(s), determining the pricing and revenue sharing model, completing the business and marketing plan, recruiting and licensing participating publishers, and making decisions on the management of the aggregation. The Steering Committee meets biweekly by teleconference and has had two in-person meetings; the last was with the combined multi-society leadership in February. Our goal is to have the final business, technical, and marketing plan ready for society review this summer and to have the aggregation ready to launch during 2004.

AM MIN STATS AT A GLANCE (FOR APRIL)

No. of Pending Manuscripts (on 23-April-2003): 148
No. of New Manuscripts Submitted: 12
No. of Accepted Manuscripts: 23 (queued)
No. of Declined Manuscripts: 6
No. of Withdrawn Manuscripts: 2
No. of revisions pending: 66

Submit papers at http://minsocam.allentrack.net
--Register and log in
--Have your paper ready to cut-and-paste title, abstract
--Have contact info for all authors ready
--Handy instructions and help files for each step
--Most file formats accepted!

50- and 25-Year MSA Members

One name was omitted in the list of individuals with 50 years of continuous membership in the Society during 2003. We apologize for the error.

50-year Members

Dr. Cecil J. Schneer, Cecil J. Schneer Professor Emeritus of Geology and the History of Science, University of New Hampshire

August 2003 Lattice
DEADLINE:
July 12, 2003
Andrea Koziol: e-mail:
Andrea.Koziol@notes.udayton.edu

Special session at 32nd IGC

It is not too early to begin planning to attend the 32nd International Geological Congress, to be held in Florence (Italy), August 21–28, 2004. Please see the web site (http://www.32igc.org) for details on the meeting and venue. The International Mineralogical Association is cosponsoring a session entitled "Astromineralogy: The New Challenge for Space Exploration." The conveners are Frans J.M. Rietmeijer, Department of Earth and Planetary Sciences, University of New Mexico and Rens Waters, Astronomical Institute, University of Amsterdam.

The session will build a bridge between the mineralogical studies of primitive extraterrestrial materials, such as interplanetary dust particles, mineral analyses of dust analog experiments and infrared telescope observations of silicates and other mineral dusts in astronomical settings. These studies make a connection with the small bodies in our solar system, such as comets and asteroids, that are the targets for several space missions in the near future and that include sample returns.

For details on the session please contact: Frans J.M. Rietmeijer (Department of Earth and Planetary Sciences, University of New Mexico, Albuquerque, NM 87131-1116, USA), email: fransjmr@unm.edu.

GSA-Seattle, continued from page 1

sessions, please contact the appropriate organizer, listed below.

This November in Seattle, we'll be able to give Gary, Don, and Charlie the tributes they deserve, hear and see some wonderful science, and enjoy good fellowship with our mineralogical, geochemical and petrologic colleagues.

E-mail addresses for MSA-GS Symposia and Topical Sessions:

Ernstfest'03: ernstfest@volcano.si.edu

Lindsley Tribute: hanna.nekvasil@sunysb.edu

Modeling Metamorphism: mbrown@geol.umd.edu, dutrow@geol.lsu.edu

Prewitt Tribute: nross@vt.edu

Leonard G. Berry Summer School 2003
Workshop on Silicate Melts, Glasses & Magmas

Instructor: Professor Don Dingwell
Chair of Mineralogy and Petrology
Dept. of Earth & Environmental Sciences
University of Munich, Germany

Host & Convenor: Professor Kelly Russell
krussell@eos.ubc.ca
Dept. of Earth & Ocean Sciences
University of British Columbia
604-822-2703; Fax: 604-822-6088

Course: The Mineralogical Association of Canada is sponsoring the "Len Berry" summer school on Silicate Melts, Glasses and Magmas. This 5-day course is given regularly in Europe by Professor Don Dingwell and is offered in North America for the first time. The course explores the state of knowledge on the physical and chemical properties of synthetic and naturally-occurring silicate melts and glasses. The lectures cover basic theory, methods of experimental measurement, a review of melt and glass properties, and applications to physical volcanology. Specific topics include viscosity and rheology, density and equations of state, thermochemistry and thermal properties, electrical and optical properties, solubilities of volatiles, surface properties, strength and hardness, fragmentation.

Tentative Course Outline:
Monday: Basic theory on physical-chemical properties of silicate melts and glasses.
Tuesday: Experimental methods, review of melt properties, relationships between properties of melts and glasses and the behaviour of volcanic systems.
Wednesday: One-day volcanology field trip (2360 BP explosive volcanism at Mount Meager volcano, B.C.)
Thursday: Applications of "experimental volcanology": **a)** geospeedometry based on calorimetric properties of natural glasses, **b)** predictive models for calorimetric glass transition temperature and melt viscosity, **c)** the rheology of crystal and bubble charged magmas, and **d)** fragmentation processes during explosive volcanism.
Friday: Material deformation experiments, & tours of labs at UBC.

Where: Dept. of Earth & Ocean Sciences
University of British Columbia, Vancouver, B.C.
[Contact: krussell@eos.ubc.ca]

When: September 1-5, 2003
UPDATES POSTED on http://perseus.eos.ubc.ca/

Registration Costs:
(Includes: lecture notes, coffee, & field trip costs)
Professionals: $250 CDN ($160 US)
Students: $150 CDN ($100 US)

* UBC offers economical short-term housing for workshop participants.

Short Course on Biomineralization Offered by MSA and the Geochemical Society

A short course entitled Biomineralization will be held at the Silverado Resort, Napa Valley, CA on December 6 - 7, 2003. The organizers of the course are Patricia Dove, James De Yoreo, and Steve Weiner. The short course precedes the 2003 Fall Meeting of the American Geophysical Union in San Francisco, California, which will have additional Biomineralization Special Sessions.

The subject of biological mineralization is a growing research area, as new and more established scientists focus upon biogeochemical problems at the interface between earth and life. The earth sciences are uniquely positioned to play a central role in advancing this field. To this end, a primary goal of the short course is to bring the subject of biological mineralization into an educational forum that will establish the state of the field and show new avenues for research. The approach of the conveners is first to introduce the concepts that are common to biological mineralization phenomena and then to examine the major mineralization processes and their impacts on earth history. The participation of scientists from a wide cross-section of earth, biological, and materials disciplines is encouraged.

The immense complexity of natural systems has thwarted efforts to construct a fundamental understanding of the processes employed by organisms to control mineralization. The advent of powerful new experimental and theoretical methods in geochemistry and molecular biology has enabled the scientific community to witness the first glimpses of a revolution that will unravel the complexity of mineral assembly in biological and inorganic systems. Linking mineralization models with the biological processes will give a fundamental understanding of how organisms organize elements into minerals and materials. With this understanding, we will be able to overcome many of the limitations on our ability to interpret and predict longer length- and time- scale phenomena that occur in biogeochemical systems.

For additional information and registration materials for this short course, see pages 10–12 of this issue of the Lattice, or contact the conveners at the addresses below.

Patricia M. Dove, Department of Geological Sciences, Virginia Tech, Blacksburg, VA, 24061, Tel: (540) 231-2444, Fax: (540) 231-3386, E-mail: dove@vt.edu. *James J. De Yoreo*, Lawrence Livermore National Laboratory, 7000 East Avenue, Livermore, CA 94551, USA, Tel: (925) 423-4240, Fax: (925) 422-6892, E-mail: deyoreo1@llnl.gov. *Steve Weiner*, Department of Structural Biology, Weizmann Institute, Rehovot, 76100 Israel, Tel: (972) 8-934-2552, Fax: (972) 8-934-4136, E-mail: steve.weiner@weizmann.ac.il.

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Mineralogical Society of America and Geochemical Society Short Course Announcement

Biomineralization

Dates: Short course will be held Saturday (8:00–5:00) and Sunday (8:30–12:00), December 6–7, 2003. These dates precede the Fall Meeting of the American Geophysical Union in San Francisco, California.

Location: Short Course will convene at the Silverado Resort, 1600 Atlas Peak Road, Napa Valley, California, 94558, U.S.A.; voice: (707) 257-0200; http://www.silveradoresort.com.

Conveners: *Patricia M. Dove*, Department of Geological Sciences, Virginia Tech, Blacksburg, VA, 24061, Tel: (540) 231-2444, Fax: (540) 231-3386, E-mail: dove@vt.edu. *James J. De Yoreo*, Lawrence Livermore National Laboratory, 7000 East Avenue, Livermore, CA 94551, USA, Tel: (925) 423-4240, Fax: (925) 422-6892, E-mail: deyoreo1@llnl.gov. *Steve Weiner*, Department of Structural Biology, Weizmann Institute, Rehovot, 76100 Israel, Tel: (972) 8-934-2552, Fax: (972) 8-934-4136, E-mail: steve.weiner@weizmann.ac.il.

			on or before 11/1/03	*after 11/1/03*
Fees:	Professional Registration:	Member	$440	$490
		Non-member	$495*	$545*
	Student Registration:	Member	$260	$290
		Non-member	$280*	$310*
	Speaker		none	none

*includes MSA membership dues and electronic access to *American Mineralogist* for 2003.

Practical: All inclusive registration fee covers *MSA*/*GS* short course sessions, hotel room for two nights (double occupancy), refreshments at breaks, Saturday lunch, evening banquet at Napa Valley Grill, transportation to restaurant, and *MSA*/*GS* short course volume. Participants must indicate room preferences on the registration form.

Registering: Registration forms are available from the MSA Business Office, 1015 Eighteenth Street NW Suite 601, Washington, DC, 20036-5212, USA. Tel: 202-775-4344, Fax: 202-775-0018, E-mail: business@minsocam.org; or the MSA Home Page (http://www.minsocam.org). Registration form with payment must be returned to the MSA Business Office.

Student Scholarships: A number of scholarships are available from the Department of Geological Sciences and the College of Sciences at Virginia Tech for registration fee waivers. Students must provide a one-page summary of why attending the short course will be beneficial to their professional development. To expedite consideration, send this statement to dove@vt.edu. Deadline for receipt of requests for funding will be September 1, 2003. The successful applicants will be selected by the organizers.

Short Course Description: Over the course of Earth history, organisms have developed the ability to produce a wide variety of complex inorganic minerals. These biominerals often have sophisticated structures and can possess chemical compositions that reflect their environments of formation. The abundance of biominerals in modern water columns, sediments and the rock record extensively chronicle the intertwined roles of biota and environment. An example of the extent and impact of biomineralization processes is clearly demonstrated in the global balance of carbon. Biomineral precipitation has sequestered a significant portion of the earth's carbon into an inert geochemical reservoir over the course of 3.5 by. This link between earth and life has governed critical shifts in ocean and atmospheric chemistry throughout earth's history.

The immense complexity of natural systems has thwarted efforts to construct a fundamental understanding of the processes employed by organisms to control mineralization. The advent of powerful new experimental and theoretical methods in geochemistry and molecular biology has enabled the scientific community to witness the first glimpses of a revolution that will unravel the complexity of mineral assembly in biological and inorganic systems. These approaches will be required to obtain

unambiguous models of mineralization that are rooted in kinetics and thermodynamic properties. Linking mineralization models with the biological processes will give a fundamental and microscopic understanding of how organisms organize elements into minerals and materials. With this understanding, we will be able to overcome many of the limitations on our ability to interpret and predict longer length- and time- scale phenomena that occur in biogeochemical systems.

The subject of biological mineralization is a growing research area, as new and more established scientists focus upon biogeochemical problems at the interface between earth and life. The earth sciences are uniquely positioned to play a central role in advancing this field. To this end, a primary goal of the short course is to bring the subject of biological mineralization into an educational forum that will establish the state of the field and show new avenues for research. Our approach is first to introduce the concepts that are common to biological mineralization phenomena and then to examine the major mineralization processes and their impacts on earth history. We encourage the participation of scientists from a wide cross-section of earth, biological, and materials disciplines.

Topics and Speakers/Authors

Establishing Cross-Disciplinary Communication

- Overview of biomineralization: Interface between earth and life
  Steve Weiner (Weizmann Institute) and *Patricia Dove* (Virginia Tech)
- Principles of molecular biology and protein chemistry
  John Evans (New York University)
- Principles of nucleation and growth
  Jim De Yoreo (Lawrence Livermore National Laboratory)

Biological Processes and Mechanisms

- Biologically induced mineralization (with focus on microbes)
  Richard Frankel (California Polytechnic State University)
- Boundary organized (with focus on microbes)
  Dennis Bazylinski (Iowa State University)
- Mineralization in an organic matrix framework (with focus on vertebrates)
  Arthur Veis (Northwestern University)
- Supplying the ions for biomineralization (with focus on corals/forams)
  Jonathan Erez (Hebrew University)
- Mineralization inside vesicles (with focus on coccoliths)
  Jeremy Young (Natural History Museum of London) and *Karen Henriksen* (University of Copenhagen)
- Silicification (with focus on diatoms, sponges)
  Carole Perry (Nottingham Trent University)

Biomineralization Impacts on Earth Environments

- Biomineralization and evolutionary history of organisms
  Andrew Knoll (Harvard University)
- Impacts of biomineralization on biogeochemical cycles
  Philippe Van Cappellen (University of Utrecht)

AGU Special Sessions: The short course will be followed by Biomineralization Special Sessions at the American Geophysical Union Meeting in San Francisco, California. If you submit an abstract for any of these special sessions, please let the short course convenors know.

Sponsorship: This short course is supported by the U.S. Department of Energy, Office of Basic Energy Sciences, Chemical Sciences, Geosciences and Biosciences Division, in honor of Dr. William C. Luth. It is appropriate to celebrate his career in education and government service with a series of short courses in cutting-edge geoscience. The Lawrence Livermore National Laboratory is also providing generous support for this event. Students scholarships are provided by the Department of Geological Sciences and College of Science at Virginia Tech.

Registration Form
Mineralogical Society of America and Geochemical Society Short Course

BIOMINERALIZATION

Silverado Resort & Conference Center, Napa, California – December 6-7, 2003

Complete and return this registration form to the MSA Business Office, 1015 Eighteenth St NW Suite 601, Washington, D.C. 20036-5274, USA. Voice: (202) 775-4344. Fax: (202) 775-0018. Please type or print. Use one form per registrant. Registration is limited to 100 people on a first-come, first-served basis. Payment must accompany this form, which will be fully refunded if cancellation is received in writing prior to November 9, 2003.

Name _____
(first) (middle) (last)
Address _____

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(city) (state/Province) (zip/postal code) (country)

Telephone: (Voice)_____ (Fax) _____ E-mail: _____

All-inclusive registration fee covers Short Course session costs, hotel room for two nights (double occupancy), Saturday lunch, refreshments, banquet at Napa Valley Grill, and the *MSA/GS* volume. All Short Course sessions will be held at the Silverado Resort, 1600 Atlas Peak Road, Napa Valley, California, 94558, U.S.A. Voice: (707) 257-0200. There is an informal welcoming reception at 6:00 pm Friday evening, December 5, Silverado Resort. Information on the Short Course location, ground transportation, and course updates are on the MSA Home Page (http://www.minsocam.org).

Registration. Mark the appropriate registration category [X] and write the appropriate fee on the cost line.

Professional Registration:	*on or before 11/1/03*	*after 11/1/03*	**Cost**
[ ] Member	$440	$490	$_____
[ ] Non-member	$495*	$545*	$_____
[ ] Speaker	no cost	no cost	$_____
Student Registration:	*on or before 11/1/03*	*after 11/1/03*	
[ ] Member	$260	$290	$_____
[ ] Non-member	$280*	$310*	$_____

* includes MSA membership dues/electronic access to *American Mineralogist* for 2004

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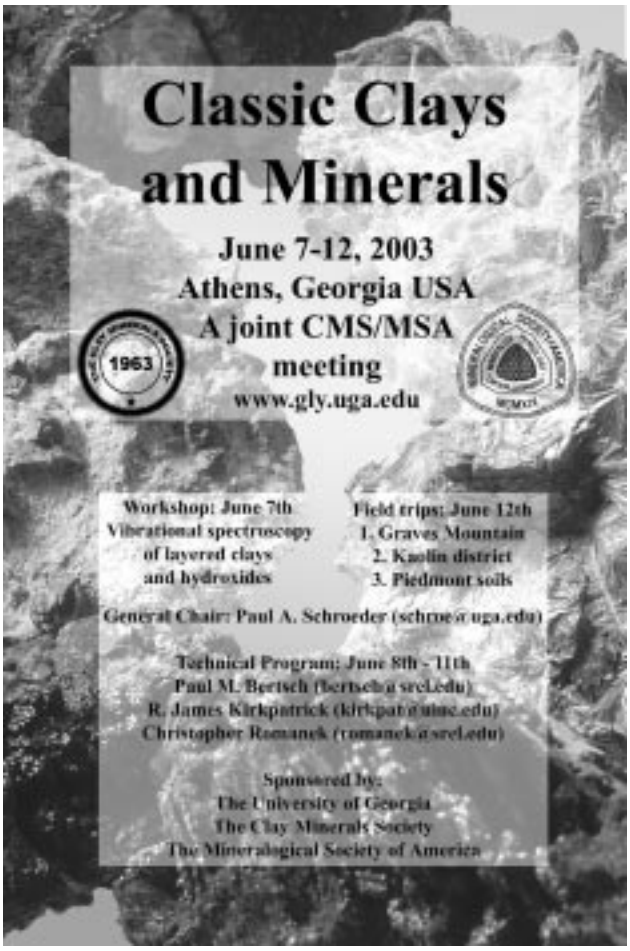

New title in
Mineralogical Society of America
and The Geochemical Society's
Reviews in Mineralogy and Geochemistry

Volume 52: Uranium-series Geochemistry, 2003, Bernard Bourdon, Gideon M. Henderson, Craig C. Lundstrom, and Simon P. Turner, eds. 656 pp. Exactly 100 years before the publication of this volume, the first paper which calculated the half-life for the newly discovered radioactive substance U-X (now called ^{234}Th), was published. This volume integrates a group of contributors who update our knowledge of U-series geochemistry, offer an opportunity for non-specialists to understand its basic principles, and give us a view of the future of this active field of research. In this volume, for the first time, all the methods for determining the uranium and thorium decay chain nuclides in Earth materials are discussed. It was prepared in advance of a two-day short course (April 3-4, 2003) on U-series geochemistry, jointly sponsored by GS and MSA and presented in Paris, France prior to the joint EGS/AGU/EUG meeting in Nice. ISBN 093995064-2.

For more description and table of contents of this book, and online ordering visit www.minsocam.org or contact Mineralogical Society of America, 1015 18th St NW Ste 601, Washington, DC 20036-5212 USA phone: 202-775-4344 fax: 202-775-0018 e-mail: business@minsocam.org

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Name _____ E-mail _____

2003 Fee Schedule

Memberships are entered and renewed on a calendar basis. You will receive all publications for the year you join. Membership applications received after October 1 will be made effective January 1 of the following year unless otherwise requested. Members will receive the newsletter, *The Lattice*, as part of their dues. As an additional benefit, members may elect to receive the *American Mineralogist*, as well as some related publications, at substantially reduced rates. Please indicate all options that apply in the box to the right. Members are entitled to a 25% discount on other MSA publications given on our Publication List.

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Welcome New Members

WELCOME!

The following individuals joined MSA January 16, 2003 through April 11, 2003. We welcome them to the Society. The areas of interest are: Mineralogy (MI), Crystallography/ Crystal Chemistry (CC), Material Properties (PP), Igneous Petrology (IP), Metamorphic Petrology (MP), Sedimentary Petrology (SP), Geochemistry (GE), Phase Equilibria (PE), Economic Geology (EG), Clay Mineralogy (CM), Industrial Mineralogy (IM), Environmental Mineralogy (EM), Gems (GM), Planetary Materials (PM), Teaching (TC), Descriptive Mineralogy (TP), Biological-Mineral Interactions (BM), and others as indicated.

If you know of someone who would like or should join MSA, give them the membership application that appears in this issue of *The Lattice*, or is available from either MSA's web site (http://www.minsocam.org) and the MSA Business Office, 1015 Eighteenth St NW Ste 601, Washington, DC 20036-5212, USA.

Baxter, Mrs. Tiffany A., Cedarburg WI. (Student - 2/12/03). MI, IP, MP,

Blank, Prof. Carrine E., Washington University, Saint Louis MO. (Member - 1/21/03). GE, EM, BM,

Blomqvist, Prof. Sven, Stockholm University, Stockholm, SWEDEN. (Member - 3/25/03). GE, EM, BM,

Carrigan, Mr. Charles Wayne, Ann Arbor MI. (Student - 3/25/03). MI, IP, MP, GE, PE, OTHER, GEOCH RONOLOGY, THERM OCHRONOLOGY, ISOTOPE GEOCHEMISTRY

Cianciulli, Mr. John, Sussex NJ. (Member - 2/12/03).,

Colombo, Mr. Fernando, Cordoba, ARGENTINA. (Student - 3/14/03). MI, CC, IP, GE, EG, GM, TP,

Condon, Dr. Daniel J., Massachusetts Inst of Technology, Cambridge MA. (Member - 2/12/03). IP, MP,

Connolly, Mr. James R., Univ of New Mexico, Albuquerque NM. (Member - 3/24/03). CC, IP, TC,

Culpepper, Mr. Jonathan D., Starkville MS. (Student - 1/21/03). MI, SP, EM,

Dumond, Mr. Gregory, Three Rivers MA. (Student - 3/25/03). MI, PP, IP, MP, GE, PE, BM, OTHER, STRUCTURAL GEOLOGY, TECTONICS

Edwards, Dr. Harold H.G., Minneapolis MN. (Member - 3/24/03). MI, CC, PP, MP, IP, SP, EG, CM, IM, EM,

Elser, Mr. Alfred M., Atlanta GA. (Student - 2/12/03). MI, PP, SP, GE, EG, CM, IM, EM, TC,

Feinberg, Mr. Joshua M., Univ of California-Berkeley, Berkeley CA. (Student - 3/26/03). MI, CC, PP, IP, PE, PM, TC,

Ferrari, Mr. Simone, Modena, ITALY. (Student - 3/24/03). MI, CC, CM, TC,

Geigner, Mr. Werner, Stammbach, GERMANY. (Member - 2/12/03). MI, MP, OTHER,

Gemmi, Dr. Mauro, Univ degli Studi di Milano, Milano, ITALY. (Member - 1/21/03). MI, CC, PE, OTHER, ELECTRON MICROSCOPY

Gerbi, Mr. Christopher C., University of Maine, Orono ME. (Student - 1/16/03). IP, MP,

Gorman, Mr. Daniel P., Gainesville FL. (Student - 3/25/03). IP, MP, GE, PE, PM,

Jercinovic, Dr. Michael J., Univ of Massachusetts, Amherst MA. (Member - 3/27/03). MI, CC, PP, IP, MP, GE, PM,

Jordan, Dr. Guntram, Ruhr-Universitaet Bochum, Bochum, GERMANY. (Member - 2/12/03). MI, CC, PP, GE, EM, MS, BM,

Kogure, Prof. Toshihiro, Tokyo, JAPAN. (Member - 3/25/03). MI, CC, CM,

Konesky, Mr. Gregory A., Hampton Bays NY. (Member - 3/6/03). MI, PP, GE, EM, PM, BM,

Kraft, Mr. Michael D., Arizona State University, Tempe AZ. (Student - 3/14/03). MI, CC, GE, CM, TC, MS,

Kula, Mr. Joseph L., Univ of Nevada-Las Vegas, Las Vegas NV. (Student - 3/13/03). MI, CC, IP, MP, GE, TC, OTHER, THERMOCHRONOMETRY

Law, Dr. Robert V., Imperial College, London England, UNITED KINGDOM. (Member - 3/24/03). MI, CC, PP, GE, PE, CM, GM, PM, TC, TP, BM, OTHER, STRUCTURE OF AMORPHOUS SOLIDS

Levine, Ms. Jamie Sloan, Austin TX. (Student - 2/12/03). MP,

Lopez-Aparicio, Ms. Susana, Universidad de Huelva, Huelva, SPAIN. (Student - 3/24/03).

Noblett, Prof. Jeffrey B., Colorado College, Colorado Springs CO. (Member - 3/25/03). IP, MP, PE,

Nwachukwu, Mr. Francis Ike, Leimen, GERMANY. (Student - 2/12/03). MI, CC, IP, MP, SP, GE, PE, IM, EM,

Petrelli, Mr. Maurizio, Universita di Perugia, Perusia, ITALY. (Student - 1/21/03). IP,

Rogers, Mr. Steven A., University of Texas-Austin, Austin TX. (Student - 2/12/03). PP, MP, GM,

Rutstein, Dr. Martin S., New City NY. (Member - 3/14/03). MP,

Santamarina, Mr. Jose C., Weinman Mineral Museum, White GA. (Member - 3/14/03). MI, CC, PP, IP, MP, SP, EG, EM, PM, BM,

Shuvalov, Dr. Robert R., St Petersburg State Univ, St Petersburg, RUSSIA. (Member - 2/12/03). MI, CC,

Teng, Mr. Fangzhen, University of Maryland, College Park MD. (Student - 3/26/03). MI, IP, MP, GE, CM, PM, TC,

Tosca, Mr. Nicholas J., S.U.N.Y. @ Stony Brook, Stony Brook NY. (Student - 3/24/03). MI, CC, PP, GE, PM, MS,

Urakawa, Dr. Satoru, Okayama University, Okayama, JAPAN. (Member - 2/12/03). CC, PP, GE, PE, PM,

Van Horn, Dr. Stephen R., Muskingum College, New Concord OH. (Member - 3/25/03). MP, IP, SP, TC,

Vernet, Ms. Beatrice M., Meudon, FRANCE. (Student - 2/12/03). MI, CC, IP, GE, PE, TP

Wetmore, Mr. Paul H., Los Angeles CA. (Student - 2/12/03). MI, IP, MP, GE,

Wiedemann, Mrs. Felicitas, Philadelphia PA. (Student - 1/17/03). GE, BM,

Wise, Dr. Michael A., Smithsonian Institution, Washington DC. (Member - 3/14/03). CC, GM, MI, IP, PEGMATITES

Wu, Mr. Jun, Johns Hopkins Univ, Baltimore MD. (Student - 2/12/03). MI, CC, PP, GE, PE, CM, IM, GM, PM, TC, TP, MS, BM,

Zachary, Mrs. Cecile G., Idaho Falls ID. (Student - 3/25/03). MI, CC, GE, PE, EM, TP, MS, BM,

Zanetti, Ms. Kathleen, University of Nevada-Las Vegas, Las Vegas NV. (Member - 3/24/03). MI, CC, IP, MP, GE, CM, TP,

Zwaan, Mr. Johannes Cornelis, National Museum of Natural History, Leiden, NETHERLANDS. (Member - 2/12/03). MI, IP, MP, PE, GE, EM, GM,

Read your RIMGs

Privacy Policy

You may notice that only member's name, affiliation, city, state country, and interests are given for new members. This is one consequence of new privacy concerns. Members provide MSA with personal information that we store. Much of this information is public. That is, it is available from other sources. For example, the names, institutional mail addresses, phone numbers, e-mail, interests, and education of most faculty are published by their schools in directories or websites. But, MSA does not disclose any nonpublic information obtained in the course of its operations except to its officers, committees, employees, and third parties who need to know that information to assist us in providing services to you. The important example of the last is providing mailing information for *American Mineralogist* subscribers to Allen Press so they can mail you the journal.

MSA List Servers

MSA has two main list servers. One is the MSA-Talk list created for members of MSA by John Brady to discuss topics of interest in the general areas of mineralogy, petrology, and crystallography. There is much of interest here - mineral-related questions and answers (especially help requested by MSA's own Ask-a-Mineralogist), announcements about meetings and courses, job opportunities with short lead times, etc. This is a voluntary list server. You can subscribe either online, on your membership renewal, or by contacting the MSA Business Office. Any subscriber can send messages to the list, and can also un-subscribe at any time. Instructions are at http://www.minsocam.org/MSA/MSA_Talk.html.

The other MSA list serve is something called MSA-Announce. It includes all MSA members from who we have e-mail addresses. It is very restricted in its use. It is used for announcing when a new issue of *American Mineralogist* is placed online, and when it is possible to electronically renew your membership. This means it is used 9 times a year. We do piggy back other announcements about new *Reviews* volumes, meetings, and short courses in these messages. But otherwise, MSA tries to spam its members sparingly.

The Mineralogical Society of America

announces the 2004

GRANT FOR RESEARCH IN CRYSTALLOGRAPHY

From the Edward H. Kraus Crystallographic Research Fund with contributions from MSA membership and friends

and the 2004

MSA GRANT FOR STUDENT RESEARCH IN MINERALOGY AND PETROLOGY

from an endowment created by contributions from the MSA membership

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, 2003.

Meetings Calendar 2003

2003

May

11–14 AAPG Annual Convention and Exhibition. Salt Lake City, UT. Email: convene@aapg.org. Web page: http://www.aapg.org/meetings/slc03/index.html

12–16 GeofluidsIV: Fourth international conference on fluid evolution, migration and interaction in sedimentary basins and orogenic belts. Utrecht, The Netherlands. Details: Mrs. Marielle Hoogendoorn, FBU Congress Bureau, Utrecht University, P.O. 80125, 3508 TC Utrecht, The Netherlands. Fax +31 30 253 58 51. E-mail: m.hoogendoorn@fbu.uu.nl. Web Page: http://www.nitg.tno.nl/eng/geofluids/index.shtml

18–24 39th Forum on the Geology of Industrial Minerals. Reno-Sparks-Tahoe, Nevada. Details: Dennis Bryan, 775-856-3833, dbryan@converseconsultants.com or Stephen Castor, Nevada Bureau of Mines and Geology, 775-784-6691 ext. 146, scastor@unr.edu. Web site: http://134.197.46.69/imf/

25–28 Vancouver 2003: joint annual meeting of the Geological Association of Canada, the Mineralogical Association of Canada and the Society of Economic Geologists, Vancouver, Canada. Details: VANCOUVER 2003, C/O Venue West Conference Services Ltd., 645-375 Water Street, Vancouver, B.C. Canada V6B 5C6. Tel.: 604-681-5226; Fax: 604-681-2503. Email: Vancouver2003@nrcan.gc.ca. Web page: http://www.vancouver2003.com.

May 29–June 1 Geology Without Frontiers: Magmatic and Metamorphic Evolution of the Central European Variscides. Blansko, Czech Republic. Details: Dr. Jaromir Leichmann, No Frontiers, Dept. of Geology and Palaeontology, Masaryk University, Kotlarska 2, 611 37 Brno, Czech Republic. Phone: +420 (5) 41 12 92 61; Fax: +420 (5) 41 21 12 14. e-mail: cgs@mail.natur.cuni.cz.Web page: http://www.natur.cuni.cz/~cgs/nofrontiers.

June

4–6 17th Biennal European Current Research on Fluid Inclusions (ECROFI XXVII). Budapest, Hungary. E-mail: ecrofi17@geology.elte.hu. Web site: http://ecrofi17.geology.elte.hu/.

4–15 High Pressure Crystallography. Erice, Italy. Details: Andrzej Katrusiak, Dept of Crystal Chemistry, Adam Mickiewicz University, ul. Grunwaldzka 6, 60780 Poznan, Poland. Phone : +48 61 86 99 181 Fax : +48 61 86 58 008. E-mail: katran@amu.edu.pl. Web page: http://www.geomin. unibo.it/orgv/erice/highpres.htm.

7–11 40th meeting of the Clay Minerals Society. Athens, Georgia USA. Details: Paul A. Schroeder, University of Georgia, Department of Geology, Athens, GA 30602-2501, USA. Phone: (706) 542-2384. Email: schroe@gly.uga.edu. Web page: http://www.gly.uga.edu/CMS2003/.

15–17 7th International Conference on the Biogeochemistry of Trace Elements (7th ICOBTE). Uppsala, Sweden. Details: Academic Conferences, Swedish University of Agricultural Sciences, P.O Box 7059, SE-750 07 UPPSALA, Sweden. Phone: +46 (18) 67 22 90 or 67 10 03. Fax : +46 (18) 67 35 30. E-mail: 7thICOBTE@slu.se. Web site: http://www-conference.slu.se/7thICOBTE/index.htm

16–18 5th International Conference on the Analysis of Geological and Environmental Materials. Rovaniemi, Finland. Details: Lars-Martin Westerberg, Geological Survey of Finland P.O. Box 1237 FIN-70211 KUOPIO, Finland. Email: Lars.Westerberg@gsf.fi or geoanalysis@gsf.fi. Web page:http://www.gsf.fi/geoanalysis2003

20-25 LERM 2003: International Symposium on the Role of Light Elements in Rock-forming Minerals. Nové Mestona, Czech Republic. Details: Dr. Milan Novák, Department of Mineralogy, Petrology and Geochemistry, Masaryk University, Kotlářiská 2, 611 37 Brno, Czech Republic. FAX (420) (5) 41211214. E-mail: mnovak@sci.muni.cz. Web site: http://sci.muni.cz/~lerm/index.htm

22–26 Euroclay 2003. Modena, Italy Details: Maria Franca Brigatti, Dipartimento di Scienza della Terra, Universita di Modena e Reggio Emilia, Largo S. Eufemia 19, 41100 Modena-ITALY. Fax: +39-059-2055887. E-mail: ec2003@unimo.it. Web page: http://www.unimo.it/euroclay2003/

22–27 8th International Kimberlite Conference. Victoria, British Columbia, Canada. Details: Dr. Roger H. Mitchell, Geology Department, Lakehead University, Thunder Bay, Ontario, Canada P7B 5E1. Phone. 807-343-8287, Fax 807-623-7526. E-mail: Roger. Mitchell@lakeheadu.ca. Web page: http://www.venuewest. com/8IKC

July

20-25 Sixth International Conference on Mars. Pasadena, CA. details: Arden Albee: phone: 626-395-6367, fax: 626-585-1917, E-mail: 6thMars03@gps.caltech.edu OR Mary Cloud, Lunar and Planetary Institute, 3600 Bay Area Boulevard, Houston TX 77058-1113. Phone: 281-486-2143. Fax: 281-486-2123. E-mail: cloud@lpi.usra.edu. Web site: http://cass.jsc.nasa.gov/meetings/sixthmars2003/

21–25 5th European Mineralogical Union School & Symposium: Ultra-High Pressure Metamorphism, Budapest, Hungary. Details: UHPM'03, c/o Department of Mineralogy, Eötvös Loránd University, Pázmány Péter sétány 1/c, H-1117 Budapest,

Hungary. e-mail: emu@ulixes.elte.hu. Web page: http://www.univie.ac.at/Mineralogie/EMU/welcome.htm?emusch_5.htm~body

26–31 American Crystallographic Association Annual Meeting, Cincinnati, OH. Details: Jeanette Krause Bauer, Dept. of Chemistry, Univ. of Cincinnati, P.O. Box 210172, Cincinnati OH 45221-0172. Tel. (516) 556-9226 Fax (513) 556-9239. Email: jeanette.krause@uc.edu. Web page: http://www.hwi.buffalo.edu/ACA/

July 28-August 1 66th Meteoritical Society Meeting. Münster, Germany. Details: Kimberly Taylor, 3600 Bay Area Blvd., Houston, TX 77058-1113. phone: 281-486-2151. Fax 281-486-2160. E-mail: taylor@ lpi.usra.edu**.** Web page: http://cass.jsc.nasa.gov/meetings/metsoc2003/

August

24–30 XXI European Crystallographic Meeting. Durban, South Africa**.** Web site: http://www.ecm21-africa.co.za.

September

2–6 5th Hutton Symposium on the Origin of Granites. Toyohashi City, Japan. Details: Hutton V, Geological Survey of Japan, AIST Tsukuba Central-7, Higashi 1-1-1, Tsukuba, 305-8567 JAPAN. E-mail: Hutton-V@m.aist.go.jp. Web site: http://www.gsj.jp/Info/event/hutton

7–12 13th V.M. Goldschmidt Conference, Kurashiki, Japan. Details: Organizing Committee of Goldschmidt 2003 , c/o International Communications Specialists, Inc. Sabo Kaikanbekkan, 2-7-4 Hirakawa-cho, Chiyoda-ku, Tokyo 102-8646, Japan. Email: gold2003@ics-inc.co.jp. Web page: http://www.ics-inc.co.jp/gold2003/

8–12 21st International Meeting on Organic Geochemistry (IMOG), Krakow, Poland. Web page: http://www.imog.agh.edu.pl/

15–19 XV International Conference on X-ray Diffraction and Crystal Chemistry of Minerals, Saint Petersburg, Russia. Details: Dr. M.G. Krzhizhanovskaya, Dept. of Crystallography, St. Petersburg State University, University Emb. 7/9, St. Petersburg 199034, Russia. E-mail: xrd2003@crystal.pu.ru. Web Page: http://www.lcm3b.u-nancy.fr/cims/forthcoming.htm#STPeterburg

18–21 International Symposium on Mineralogy. Cluj-Napoca, Romania. Details: Prof. Bogdan P. Onac, Department of Mineralogy, Babes-University, 3400 Cluj, Romania. Email: bonac@bioge.ubbcluj.ro. Web site: http://bioge.ubbcluj.ro/~bonac/smr.htm.

22–25 Earth Sciences into the 3. Millennium: Methods, Materials, Mechanisms, Böchum, Germany. Details: Olaf Medenbach, Institut für Geologie, Mineralogie und Geophysik, Ruhr-Universität Bochum, 44780 Bochum. E-mail: olaf.medenbach@rub.de. Web Page: http://www.geo2003.rub.de/html/eng/index.html

November

2–5 Geological Society of America Annual Meeting. Seattle WA 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

9–12 Materials Science & Technology 2003, Chicago, Illinois. Email: atscitech.org" info@matscitech.org. Web page: http://www.matscitech.org/2003/Home.shtml

December

1–5 Materials Research Society Fall Meeting, Boston MA USA. Web page; ww.mrs.org/meetings/fall2003/

8–12 AGU Fall Meeting, San Francisco, CA, USA.

Details: AGU Meetings Department, 2000 Florida Avenue NW, Washington, DC 20009 USA. Phone: +1-202-462-6900; Fax: +1-202-328-0566. Email: meetinginfo@agu.org. Web page: http://www.agu.org/meetings.

2004

March

14–18 The Minerals, Metals & Materials Society Spring Meeting, Charlotte, North Carolina, USA. Details: TMS, Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086 USA. Tel: (724) 776-9000 x243; Fax: (724) 776-3700. Email: mtgserv@tms.org. Web page: http://www.tms.org/Meetings/Annual-04/AnnMtg04Home.html

April

12–16 Materials Research Society Spring Meeting, San Francisco, CA. Details: Telephone (724) 779-3003; Fax (724) 779-8313. Email: info@mrs.org. Web page:http://www.mrs.org/meetings/future_meetings.html

25–30 14th International Zeolite Conference, Cape Town, South Africa. Details: Organising Secretariat: 14th IZC Mrs Meg Winter, c/o Department of Chemical Engineering, University of Cape Town, Rondebosch , 7701, South Africa. Tel: +27 21 650 2752; Fax: +27 21 689 7579. Email: izc@chemeng.uct.ac.za. Web page:http://www.14izc.org.za/

Attention Meeting Planners!

Send meeting information to Andrea Koziol e-mail: Andrea.Koziol@notes.udayton.edu -- please include the meeting date, name, location, and all the contact information you would like.

Goldschmidt 2003 in Kurashiki September 7-12, 2003 (www.ics-inc.co.jp/gold2003/)

The Goldschmidt Conference is now the premier annual meeting for geochemistry. The conference covers a wide range of topics in geochemistry and cosmochemistry, including cosmic substances and the solar system, early earth, substances and processes in the earth's interior, material circulation on the earth's surface, climate change, earth's environment, biogeochemical processes, and technological advancement. The past Goldschmidt Conferences have been organized through the collaboration of the Geochemical Society and European Association of Geochemistry. In 2003, the Geochemical Society of Japan will join this collaboration, and the 13th Goldschmidt Conference will be held in Kurashiki, Japan, from September 7 to 12. For the first time, the meeting will be held in the western Pacific region.

Kurashiki, where you will meet old Japan

The city of Kurashiki is located approximately 200 km west of Osaka, easily accessible by the bullet train (*Shinkansen*) from Tokyo, Osaka, or Fukuoka. Kurashiki was a local trading center in western Japan in the 17th to 19th centuries, preserving the medieval Japan atmosphere in its old town area. Many attractive tourist cities such as Kyoto, Nara, Himeji, Okayama, and Hiroshima can be reached by *Shinkansen*.

Visit an active volcanic arc

Japan is a good place to see not only historical monuments but also geology of island arcs. A post-conference field trip to Kyushu is being organized, where you will see active volcanoes, thermal springs, and mineralization. Mid-session optional tours include a visit to Japanese gardens and old castles in the Okayama and Himeji areas. A cruise in Seto Inland Sea is also planned.

First priority for all geochemists

Goldschmidt 2003 will provide you with an opportunity to take part in the frontiers in geochemistry and cosmochemistry. It will also help you extend collaborations with geochemists worldwide.

Indication of Interest

Further announcements will be made on our web-site, and important updates and reminders will be announced by e-mail. To be included in the mailing list, please send e-mail with Registration of interest in the subject line to gold2003@ics-inc.co.jp or register your interest on the web-site (http://www.ics-inc.co.jp/gold2003/).

Important Dates:

October 31, 2002	Deadline for special session proposals
January 2003	2nd Circular (website), Call for papers, pre-registration
May 2003	Deadline for electronic submission of abstracts
September 7–12, 2003	Goldschmidt 2003 in Kurashiki, Japan

New title in

Mineralogical Society of America and The Geochemical Society's

Reviews in Mineralogy and Geochemistry

Volume 51 **Plastic Deformation of Minerals and Rocks.** 2002, Shun-ichiro Karato and Hans-Rudi Wenk, eds. 420 pp. ISBN 0-93995063-4. US$36. Topics include new techniques of experimental studies for both large-strain shear deformation and ultrahigh pressures, deformation of crustal rocks and the upper mantle, interplay of partial melting and deformation, new results of ultrahigh pressure deformation of deep mantle minerals and microscopic mechanisms controlling the variation of deformation mechanisms with minerals in the deep mantle, stability of deformation under deep mantle conditions with special reference to phase transformations and their relationship to the origin of intermediate depth and deep-focus earthquakes, fracture mechanisms of ice, including the critical brittle-ductile transition that is relevant not only for glaciology, planetology and engineering, but for structural geology as well, experimental and theoretical studies on seismic wave attenuation, relationship between crystal preferred orientation and macroscopic anisotropy, illustrating it with case studies, recent progress in poly-crystal plasticity to model the development of anisotropic fabrics both at the microscopic and macroscopic scale, seismic anisotropy of the upper mantle covering the vast regions of geodynamic interests, using a global surface wave data set, and theoretical aspects of shear localization.

For more description and table of contents of this book, and online ordering visit www.minsocam.org or contact Mineralogical Society of America, 1015 18th St NW Ste 601, Washington, DC 20036-5212 USA phone: 202-775-4344 fax: 202-775-0018 e-mail: business@minsocam.org

Coming in the *American Mineralogist:*

LETTERS

ARTICLES

AND MANY MORE!

2003-2004 MSA DISTINGUISHED LECTURERS

The Mineralogical Society of America is pleased to announce that its Distinguished Lecturers for 2003-2004 are:

Bradley Hacker
University of California, Santa Barbara, California
who will offer lectures on

Antipodal Fates of Continental Crust: Ultrahigh Pressure and Ultrahigh Temperature Metamorphism
and
Why Subduction Zone Earthquakes? A Deep Relationship with Metamorphism

Jill Dill Pasteris
Washington University, St. Louis, Missouri
who will offer lectures on

Minerals: They Do a Body Good
and
Broadening our View of Minerals: Importance of Natural, Biological and Synthetic 'Minerals'

David Vaughan
University of Manchester, Manchester, England
who will offer lectures on

Minerals, Metals and Molecules: Ore and Environmental Mineralogy in the 21st Century
and
Mineralogy: a Key to Sustaining the Health of Earth and Humanity

If your institution is interested in requesting the visit of a MSA Distinguished Lecturer, please contact the Lecture Program Administrator: *Dr. Helen M. Lang, Department of Geology & Geography, P.O. Box 6300, West Virginia University, Morgantown, WV 26506-6300 USA, e-mail: hlang@wvu.edu, Tel: 304-293-5603 ext. 4312, Fax: 304-293-6522*. The Lecture Program is designed to run from September, 2003, through April, 2004. Lecturer requests received by May 12, 2003, will be given priority. Late applications will be considered on a space-available basis. In making your request please include (1) airport proximity from, and travel time to, your institution, (2) the name of a contact person at your institution for the months of May and June (when Lecturer schedules will be assembled), (3) contact e-mail addresses and phone numbers, and (4) flexibility on Lecturer preference. (5) Schools outside the U.S. should indicate the end date for spring-term 2004 classes. Please note that because of travel and schedule constraints it is normally not possible to satisfy requests for tightly constrained dates such as seminar days.

Members in the News

Lynn Boatner, a corporate fellow at the Department of Energy's Oak Ridge National Laboratory and MSA member, has earned a prestigious award for his research on the fundamental properties and applications of rare earth phosphates and other rare earth materials. The Frank H. Spedding Award was presented to Dr. Boatner in August of 2002 during the Rare Earth Research Conference in Davis, CA. Boatner also presented a plenary keynote lecture about his research during the conference. This was the 10th time the Spedding Award was presented in recognition of excellence and achievement in research centered on the science and technology of the rare earths.

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