Newsletter of the Mineralogical Society of America Vol. 15, No. 4, November 1999

The Lattice

MSA AWARDS LUNCHEON AT 1999 GSA MEETING

The eightieth annual Awards Luncheon of the Mineralogical of America was held on October 26, 1999 during the 1999 Geological Society of America meeting in Denver Colorado.

Ikuo Kushiro was awarded the Roebling Medal, the highest honor given by MSA, for exemplary studies in experimental petrology. In 1953 he entered the University of Tokyo, and in 1957 he finished the geology course and went on to graduate school, where he conducted petrological work on the differentiation of basaltic magma under the supervision of Professor Hisashi Kuno. Just after he was awarded his Ph.D. in 1962, he became a post-doc at the Geophysical Laboratory, where he started his experimental work on basalts together with Frank Schairer and Hatten Yoder. In 1965 Ikuo Kushiro returned to the University of Tokyo, but two years later he returned to the Geophysical Lab and continued his experimental study on the genesis of basaltic and andesitic magmas, except for a break to study Apollo lunar samples at the University of Tokyo. In 1974 he again returned to the University of Tokyo as Professor of petrology and was engaged in both teaching and research until 1994. During this period, he visited the Geophysical Lab several times and conducted experimental studies on the properties of magmas at high pressures and the genesis of basaltic magmas. From 1991 to 1994 he served as Dean of

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Roebling Medal awarded to Ikuo Kushiro. MSA President John Ferry presented the Medal to Ikuo Kushiro, with citationist Bruce Watson looking on.

Also in this issue

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Science and Vice President of the University of Tokyo. In 1994 Ikuo Kushiro retired from the University of Tokyo and moved to the Institute for Study of the Earth's Interior, Okayama University as Professor and Director. In March 1999 he retired from Okayama University. Bruce Watson served as citationist and highlighted Ikuo Kushiro's highly prolific career .

The Distinguished Public Service Award was presented to R. A. Howie for years of tireless abstracting.. R. A. Howie attended Cambridge to read Natural Sciences, specializing in mineralogy and petrology, followed by a Ph..D. on mineralogy and geochemistry of charnockites from the type area of Madras. From Cambridge he moved to a teaching post at Manchester, where his association with Alex Deer and Jack Zussman led to the publication in 1962/3 of the five-volume work on the Rock-Forming Minerals. The original intention had been to produce a student text and this eventually followed in 1966 as 'An Introduction to Rock-Forming Minerals'. Since then the authors have embarked on a projected 10-volume second edition of the main work. In 1962

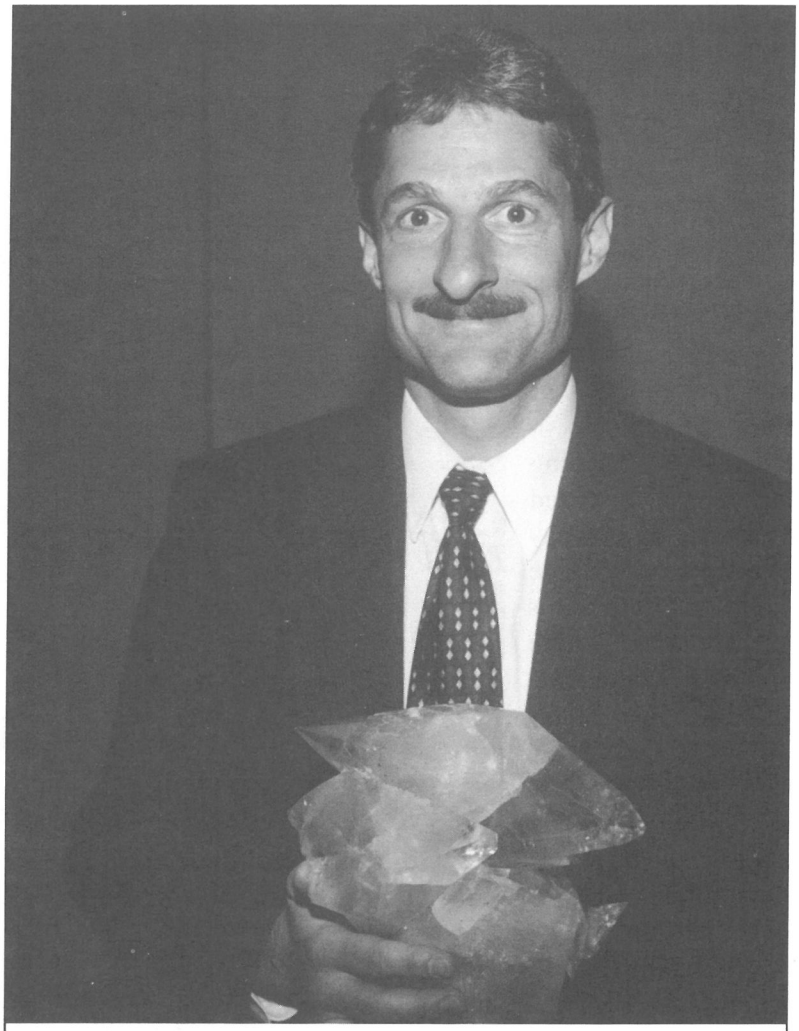
R. A. Howie receiving the Distinguished Public Service Award from MSA President John Ferry with citationist Paul Ribbe present.

Yingwei Fei receiving the Mineralgocal Society of America Award from MSA President John Ferry with citationist Charles Prewitt present.

R. A. Howie moved to Kings College London, and was appointed Professor of Mineralogy in the University of London in 1972; he retired from teaching in 1987. Since 1956 he has been involved with Mineralogical Abstracts, as an abstractor, as National Organizer for Great Britain, and, since 1966, as Principal Editor. In this guise, he not only continues to write some 1600 abstracts each year but also edits and proof-reads all 4500/5000 abstracts published annually, as well as submitting abstracts to Gems & Gemology, and acting as Book Review Editor for the Mineralogical Magazine. Paul Ribbe cited R. A. Howie for the service that he has provided to the scientific community.

Yingwei Fei received the Mineralogical Society of America Award for outstanding research early in one's career. Fei obtained a B. Sc. In Geology from Zhejiang University, Hangzhou, China, in 1982, and started with his graduate studies at the Institute of Geochemistry, Academia Sinica. He came to the United States in 1984 and pursued his Ph.D. with Surendra K. Saxena at the City University of New York in 1989. He was awarded a Distinguished Scholar Dissertation Award from the University for his thesis work on thermodynamics of reactions at high pressure and temperature. He joined the Geophysical Laboratory in 1988, where he started his professional career. Fei has established a research program in experimental petrology and mineral physics. He is involved in developing multi-anvil apparatus and diamond-anvil cell high-pressure techniques. His current interests include mantle mineralogy and petrology, core composition and core formation, role of water and hydrous phases in a subducted slab and deep mantle, physical properties of materials at high pressure and temperature, and material synthesis at high pressure. Charles Prewitt served as citationist and recognized Fei for his creative research.

MSA cited George D. Guthrie and Donna L. Whitney as the 1998-1999 MSA distinguished lecturers. The MSA-sponsored lecturers travel from September through April giving talks at colleges and universities in the United States and Canada about new directions in mineralogy. During the 1998-1999 academic year George Guthrie, Los Alamos National Lab, offered lectures on "Mineralogy in the lung: Geochemical mechanisms of mineral induced disease; London bridges falling down?", "Mineralogy may hold the key" and "Discovering the mysteries of fine-grained materials: TEM and XRD of opal and clay". Donna Whitney, University of Minnesota – Minneapolis, offered lectures on "Petrology and global warming: How igneous and metamorphic processes change world climate"; and "Garnet tectonics: What small mineral grains reveal about large mountain belts".



Rich Reeder with mounted specimen of Elmwood Calcite on a rotating hexagonal base.

Guy Hovis, Lafayette College, was recognized for his five years of service to MSA as MSA Lecture Coordinator. The Lecture Coordinator selects and arranges lecture tours from as many as 85 schools.

In appreciation for their years of service as American Mineralogist Editors Rich Reeder and Ted Labotka received exquisite mounted Elmwood calcite and Rioja pyrite, respectively. The minerals were mounted on rotating bases, hexagonal for calcite and cubic for pyrite, and were custom-made for the minerals by Bill and Elsie Stone of the Sunnywood Collections, Aurora, CO. Their partial donation was greatly appreciated. Barb Dutrow, outgoing MSA Secretary, was instrumental in the purchase and mounting of the minerals.

Finally, the John Ferry passed on the gavel of the MSA Presidency to Bill Carlson. Bill started his term by closing the 1999 Awards Luncheon.

From the President

Outgoing President John Ferry passing the gavel of the MSA presidency on to the new President Bill Carlson

You'd think it would be a mind-numbing affair — a daylong gathering of the MSA Council the Sunday before each GSA meeting. But I came away from our recent conference in Denver feeling exuberant, energized and encouraged by MSA's future prospects. In this quarterly letter, I'd like to share some of that excitement, and to lay out a set of three themes that I hope the Society will address aggressively in the coming year.

At the root of my enthusiasm for MSA's future is the clear evidence that its members are more willing than ever to give of their time and energy to promote the Society's activities. Prime examples are our outgoing President, John Ferry, whose exemplary leadership over the past year has positioned the Society ideally for continued progress; our outgoing Secretary, Barb Dutrow, who has tirelessly kept a host of activities and projects on track; and outgoing Councilors John Holloway and Jillian Banfield, whose sound advice, leadership of initiatives, and service as committee chairs have meant a great deal to MSA over the last three years. Certainly we can count on no less from our new Vice-President, Cornelis Klein; our new Secretary David Jenkins; and our new Councilors Jeffrey Post and David Bish.

When you add in the service of our continuing Treasurer, Brooks Hansen, our continuing Councilors, our several Editors and Associate Editors, our distinguished Lecturers, numerous committee chairs and committee members, and a dedicated staff led by our Administrator, Alex Speer, MSA's core strength is obvious. But above it all stand the vital contributions of members who submit and review articles for publication, convene and attend short courses and meetings, support the Society financially, and promote the mineral sciences in a wide range of professional venues. From this solid base spring important opportunities for expanding, growing, and strengthening MSA and its impact.

MSA's future: Broader, larger, stronger

Diversification and breadth. The first theme I would identify as a priority for MSA is hardly a new one. For many years now, the Society's range of activities and its members' interests have mirrored the expansion of the science itself into fields beyond the traditional triumvir identified in MSA's logo — mineralogy, crystallography and petrology. The Society's membership increasingly reflects a wider range of scientific disciplines, broader categories of professions and employers, and a stronger international component. Our members have embraced an obligation to foster educational efforts in the mineral sciences at all levels, along with outreach efforts to the general public. All indications are that this expansion of areas, activities and obligations will continue to shape MSA's future, and we must be responsive to these changes.

Increases in membership. It seems to me somewhat paradoxical, given the expanding relevance of mineralogy to collateral disciplin that MSA membership for the la decade has trended steadily downward. Particularly disturbing is

the marked decline in student members in recent years. Also troubling is the falloff in international institutional subscriptions to MSA publications. Many factors affect these trends, of course, and some may be demographic and economic drivers over which we have no control. But I submit that we can no longer remain passive on the issue. Instead, we need to aggressively pursue means of generating sustained increases in MSA's membership. This is a second theme to which I hope to draw attention, and to which I hope to direct effective action, in the next year.

Strengthening our financial base. During the last year, when I was attending Council meetings as Vice-President, I was struck by a marked difference in the tone of financial discussions as contrasted to those of several years ago when I was a Councilor. As MSA has expanded its activities — sponsoring more short courses, increasing the size of *American Mineralogist*, publishing more volumes in the *Reviews in Mineralogy* series, growing its Lecturer program, undertaking outreach efforts — it has steadily approached the point at which its revenues and its income from endowments are no longer adequate to support the full range and level of desirable initiatives. Always reluctant to raise dues and the price of subscriptions, the Society has continually controlled its expenses carefully; it has also recently re-examined its principal operations and enacted a number of successful cost-cutting measures — the transition to desktop publishing of *American Mineralogist* is a wonderful example. But the fact remains that we have outgrown the legacy left us by the Society's founders. Restoring our fiscal strength and flexibility thus becomes a third theme for the coming year. The time has come to seek ways to enlarge our endowment, as the most certain means of sustaining a vibrant MSA well into the future.

What's next?

I hope the brief statements above will start us all thinking about MSA and its future, and what each of us can do in support of attempts to broaden, enlarge, and strengthen our Society. MSA's leadership, starting with the MSA Council, has begun to engage these issues, and we need your input. Please let us know your thoughts. The website lists addresses and phone numbers for all of the Society's officers. I would also like to invite you to communicate to me personally your ideas, concepts, and concerns; email often works best, so please contact me at wcarlson@mail.utexas.edu.

Between this letter and my next, the calendar will roll over into the next millennium. All the hype notwithstanding, it still seems like a propitious time to take some bold steps on behalf of MSA. In my next quarterly letter, I intend to bring forward specific ideas and proposals — which I hope will include yours — in time for action to be taken by MSA Council at its spring meeting.

Best wishes to you all.

Bill Carlson
MSA President

The Lattice is published quarterly (February, May, August, November) by the Mineralogical Society of America. It is distributed to MSA members 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 series; *The Lattice*; special subscription rates for *Mineralogical Abstracts, Physics and Chemistry of Minerals*, *Journal of Petrology*, and *Journal of Metamorphic Geology*; reduced registration fees at MSA short courses; 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 2000 are $80 for professional members who elect to receive *American Mineralogist* and $50 for those who elect not to receive the journal, but who do receive all other membership benefits; membership is $30 for students. Membership is on a calendar year basis. Individuals who join after January 1, 2000 will be sent all back issues of volume 85, 2000.

For additional membership information and an application, and/or to receive a price list of the Society's publications, contact the Business Office.

Institutions may subscribe to the 2000 volume of *American Mineralogist* for the annual rate of $430 in the US and $440 for non-US addresses. The subscription price includes any new volumes of the *Reviews in Mineralogy* series published during the calendar year of the subscription. Payment must be received in full before a subscription will be started.

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Notes from Washington

• MSA membership renewals were mailed in early November. If you have not received yours, please let the Business Office know. You can save your Society money by renewing promptly. If you reside overseas and are interested in faster delivery of the *American Mineralogist*, consider ordering International Surface Airlift service (ISAL) for the journal when you renew your member subscription. It costs $40 additional and will reduce shipping time from several months to 2-3 weeks, depending on your location.

• More MSA members responded to the call for donations of MSA publications so that we have reference copies of all MSA publications. MSA appreciates the donations of very early numbers of *American Mineralogist* from Raymond Joesten and Andrew J. Locock. The office still needs many numbers of *American Mineralogist* from volumes 1 through 37. Additional copies of *Reviews in Mineralogy*, volumes 1-7 are also appreciated. Let us know what you are willing to part with.

• If you recently purchased the print version of the MSA Membership Directory, you will have noticed something different. Borrowing from the software industry, the directory is enclosed in an envelope with a gummed label seal stating that opening the envelope and using the directory represents the user's agreement to the terms of the "license" on the label. The label provisions limit the directory use to personal reference and prohibits the distribution, resale, or copying of the contents, or their use as a mailing list. While directories may, as a whole, be copyright protected, the name and address information they contain cannot be protected under the copyright law. Many MSA members have indicated that they do not want their names placed on other mailing lists, and there has little demand from other members to receive even more mail from third parties. Licensing the Membership Directory can provide protection from misuse in this way, and yet allow MSA to continue to offer a useful directory to its members.

• The MSA website is undergoing an extensive rebuild. The new site is meant to be functional, allowing clear access to information, without the wait for graphics to download or concern about the web browser version you have. The next portions of the site to be implemented are online ordering, meeting registration, and membership renewal, as well as the membership directory. The final portions will be adding educational and research content and resources – which is anticipated to be a continually ongoing project. We also expect to add MSA organizational information to answer such questions as who are the Roebling Medalists, who was on the 1969 Management Committee, and what are the responsibilities of the Publication Committee?

• MSA received several member responses to President Ferry's comments on declining overs institutional subscriptions that appeared in the August, 1999 Lattice. Increasing subscription rates compounded with changes in the exchange rates were accepted as having severe effects. There were suggestions to increase subscribers by making the overseas subscriptions rates lower, though it was left unsaid how the shortfall could be recovered for a journal that is sold at cost. The best way to lower subscription rates is to increase the number of subscribers. Adding just 100 more institutional subscribers would decrease the price of American Mineralogist to everyone by 10%. Recovering the several hundred subscriptions lost in the last few years would have a significant effect in reducing subscription rates. An alternative to rising subscription costs of print journals are electronic journals with free access such MSA's Geological Materials Research (GMR). Gone are concerns about subscription rates or access limited to organizations that can afford it. However, what is needed is for more authors to write and publish articles in GMR, and for more readers finding relevant materials in and reference GMR in their own works.

• MSA has been keeping book reviewers bus*y*. *Planetary Materials*, Reviews in Mineralogy volume 36, was reviewed by M. M. Grady in the 1999 August issue of *Mineralogical Magazine*, pp. 611-613 and by Richard A. F. Grieve in *Canadian Mineralogist* (1999) v. 37, pp. 253-255. *Ultrahigh-Pressure Mineralogy*, Reviews in Mineralogy volume 37, was reviewed by James A. Tyburczy in (1999) *EOS* v. 80, number 32, page 358 and by Kenneth L. Currie in *Canadian Mineralogist* (1999) v. 37, pp. 782-783. *N. L. Bowen and Crystallization-Differentiation – The Evolution of a Theory* was reviewed by Bjorn Mysen in *Canadian Mineralogist* (1999), v. 37, pp. 787-790; by S. A. Morse in *Journal of Petrology* (1999) v. 40, pp. 1577-1578; and by H. S. Yoder, Jr. in *American Mineralogist* (1999) v. 84, p. 1690. The Mysen review is a mini-book of its own, sort of a Cliff Notes version of the book that will be welcomed by any petrology student the night before a test. Tony Morse tells us that every student of petrology will want to read this book; it will teach them scholarship – and for a price of only a few beers. He admonishes to "Save today and buy tomorrow – give it to a kid to read".

J. Alex Speer, MSA Administrator

Members in the News

Alan Anderson, Robert Mayanovic and Sasa Bajt were awarded the Hawley Medal for the best paper published in The Canadian Mineralogist in 1998.

Charles Bacon, U. S. Geological Survey, received the 1999 VGP Bowen medal for the American Geophysical Union.

Peter Burns, University of Notre Dame, was awarded the Donath Medal, the Young Scientist Award of the Geological Society of America. This medal is awarded to a young scientist, 35 years of younger at the time of the award, for outstanding achievement in contributing to geologic knowledge through original research that marks a major advance in the earth sciences.

Ian S. E. Carmichael, University of California – Berkeley, was elected to Fellowship of the Royal Society.

Priscilla Grew, University of Nebraska – Lincoln, was presented with Ian Campbell Medal from the American Geological Institute at the Geological Society of America meeting. This AGI medal is awarded to a person who exemplifies the accomplishments and widespread influence comparable to Ian Campbell, president of AGI in 1961.

Lee Groat, University of British Columbia won the 1999 Young Scientist Award for the Mineralogical Association of Canada.

Norman Halden, University of Manitoba, received the Leonard G. Berry Award for distinguished service to the Mineralogical Association of Canada.

Frank C. Hawthorne, University of Manitoba, was awarded the 1999 Past-President's Medal of the Mineralogical Association of Canada.

James B. Thompson, former president of MSA, has been elected a Foreign Member of the Italian National Academy "Lincei". "Lincei", founded in 1603, is the most ancient surviving Academy, and boasts Galileo among its members.

Editors note: Please do not be overly modest. When you are recognized by a professional organization, the MSA membership would like to know.

1999 Report of the Secretary

The 80th annual business meeting of the Society was held on October 26, 1999 at the Denver Convention Center, Denver, Colorado, in conjunction with the annual meeting of the Geological Society of America. This meeting directly follows the Presidential Address each year; same place, easy to find. This meeting highlights the past year's Society events and provides an opportunity for members to ask questions. These events are not to be missed, so add it on your calendars for next year!

This report represents a substantial distillation of nearly 30 hours of council meetings and numerous e-mail communications that the council has undertaken on behalf of the Society for the past year. (Our Scientific Administrator takes care of the daily operations and a tremendous amount of "other" business.) Council meets, in person, three times per year to discuss operations and actions of the Society. The first council meeting of 1999 was held the evening of 25 October 1998 in Toronto, Ontario, Canada; the second was 5 June 1999 in Boston, MA; and the third 23 October 1999 in Denver, CO. Meetings are held in conjunction with GSA and Spring AGU and are open to members.

Election Results for the year 2000

Voting for the millennium Society officers and council members occurred during the summer of 1999, by mail. Members elected to office for the 2000 term are:

President: William Carlson
Vice President: Cornelis Klein
Brooks Hanson remains as *Treasurer* (1999-2001)
David Jenkins: *Secretary* (2000-2001)
Councillor: David Bish (2000-2002)
Councillor: Jeffrey Post (2000-2002)

They join those members that remain in office: Past President - John Ferry and Councillors Michael Carpenter, Mark Ghiorso, Bob Luth, and Sorena Sorensen. As is customary, it was a very close race. Approximately 26% of the membership voted. A special thank-you to those who ran for office, and those of you who voted!

Membership Statistics:

As of Sept. 30, the total membership for the Society is 1917, twenty-one fewer than in the previous year. There are: 1118 regular members (down 35); 72 life members; 313 fellows; 142 life fellows; 3 honorary fellows; 21 senior members; 56 senior fellows and 192 students (down 45).

These statistics indicate that our regular membership decreased slightly but that our student membership continues it precipitous decline, following the 20% drop last year. MSA needs your help in recruiting new members and spreading the word to students and colleagues about MSA, it is a great deal!

2000 Medallists and Research Grant Recipients

On behalf of MSA, it is my pleasure to announce and congratulate the 2000 Medallists and Grant Recipients.

Professor Robert C. Reynolds, Jr., Dartmouth College, is the 2000 Roebling Medallist; Dr. Quentin Williams, University of California-Santa Cruz, is the 2000 MSA Award recipient; and Professor George Rossman, California Institute of Technology, is the 2000 Mid-Career Award recipient. We encourage you all to nominate future Medallists.

The 2000 Kraus Crystallographic Research Grant is awarded to Mikala S. Beig, of Rice University, for her work on "Silicate crystallography, weathering, and the greenhouse effect."

Due to the growth of the Mineralogy/Petrology Grant funds (thanks to the donors and to the Financial Advisory Committee), two awards could be offered this year. The 2000 Mineralogy/Petrology Research Grants are awarded to: Julia Ann Baldwin, of MIT, for her work on "Monazite paragenesis in granulite facies rocks of the Striding-Athabasca mylonite zone, northern Saskatchewan, Canada" and Cin-Ty Aeolus Lee, Harvard University, "The evolution of the continental lithosphere in tectonized regions: Re-Os isotopic mapping of the lithospheric mantle beneath southwestern North America."

Also, the MSA offers the American Mineralogist Undergraduate Awards to outstanding students. Faculty, don't forget to nominate your students. They receive a prestigious certificate and a RiM volume of their choice, a nice beginning to the wall of white.

Members elected to Fellowship

New fellows of the MSA for 1998 are: Orson Anderson, Calvin Barnes, Mike Brown, I-Ming Chou, Charles Geiger, Terry Gerlach, Fergus Gibb, Kurt Kyser, John Parise, and Sorena Sorensen. Fellows elected in 1999 are: Achille Blasi, Carol Frost, Mickey Gunter, Calvin Miller, Jean Morrison, Simon Redfern, Shu-Chun Su, Vittorio Tazzoli, Peter Ulmer, and David Vanko. Members can nominate fellows. Nomination procedures for fellowship have been simplified and can be found on the MSA website.

MSA at GSA

MSA plays a significant role in the Geological Society of America meeting, the current home of

MSA's annual meeting. Since 1982, MSA has averaged 239 abstracts per meeting (this is the number reviewed by GSA's JTPC reps, calculated by L. Anovitz)

This year MSA sponsored 3 theme sessions and 14 technical sessions including poster sessions; igneous petrology-3, metamorphic petrology-3, experimental petrology - 2, mineralogy/crystallography-2, volcanology-2. The theme sessions included: "Uranium: Mineralogy, Geochemistry and the Environment"(3 sessions), "Beryllium: Mineralogy, Petrology and Geochemistry" and "Application of Advanced Geochemical Modeling to Mining-related Environmental Issues".

President John Ferry's Presidential Address to the Society, entitled "Some Unexplored Aspects of Metamorphism", was presented Tuesday, 26 October 1999. Immediately following the address, President Ferry called the annual business meeting to order. Verbal, and more importantly, short reports were presented to the membership by the MSA Secretary, MSA Treasurer and The American Mineralogist Editor Bob Dymek. After discussion by the members, the meeting was adjourned to the joint MSA/GC social event. This popular reception continued the tradition of bringing the MSA Tuesday at GSA to a great conclusion. Terrific food, libations and a wealth of colleagues, provide a stimulating atmosphere in which to discuss common interests, the future of the Society and meet and greet the 1999 MSA Award Recipients (see feature article).

Short courses

This year MSA offered the short course: "Uranium: Minerals, Chemistry and the Environment". This course was held Friday and Saturday, October 22-23, 1999, preceding the Mineralogical Society of America-Geological Society of America Annual meeting in Denver, Colorado, at the Holiday Inn Denver West Village, Golden, Colorado. Convenors were Peter C. Burns, University of Notre Dame, and Robert Finch, Argonne National Laboratory. As usual, it was a resounding success.

An attractive slate of upcoming short courses and venues includes: "Sulfate Mineralogy" to be held at Lake Tahoe, CA, prior to the 2000 Reno GSA meeting organized by Charles Alpers and Kirk Nordstrom; "Transformation Processes in Minerals" by S.A.T. Redfern, to be held in Cambridge, England prior to the 2000 Goldschmidt Conference in Oxford; "Stable Isotope Geochemistry" by John Valley to be held in conjunction with GSA 2001; "Molecular Modeling Theory and Applications to the Geosciences" by Randy Cygan and Jim Kubicki to be held in conjunction with the Goldschmidt conference 2001; "Plastic Deformation and Deformation Microstructures of Minerals and Rocks" by S. Karato and H-R. Wenk; and "Nanocrystals in the Environment and Technology" by A. Navrotsky and J. Banfield, locations to be announced and "Biomineralization" by Patricia Dove, J. DeYoreo and S. Weiner, to be held in 2003.

These short courses will be held in conjunction with other national as well as international meetings. MSA will soon take the courses to Europe. Any of you wishing to propose a short course can contact our short course committee chair, Jinny Sisson.

Publications:

Two new publications have appeared from MSA that you will want: Optical crystallography - a new text written by F. Donald Bloss; and a new RiM Volume 38, Uranium: Minerals, Chemistry and the Environment, Co- Edited by Peter C. Burns and Robert Finch. RiM will take on a new appearance as of the millennium: the RiM&G. The Geochemical Society has joined MSA to produce Reviews in Mineralogy and Geochemistry volumes. They will maintain the high quality and low cost hallmark of the series.

MSA's totally electronic journal, Geological Materials Research, continues to receive manuscripts. MSA will host a symposium which highlights GRM in the near future. Stay tuned for details. Members are encouraged to submit articles that take full advantage of a web-based format such as visualization, simulations, etc. to one of the editors: John Brady, Donald Dingwell, Martin Dove, Frank Spear, or Allan Treiman. Visit gmr.minsocam.org.

Lecture Series

One of the primary outreach activities of the MSA continues to be the ever-popular MSA lecture series. Many more requests are received than can be accommodated by our two yearly stellar speakers.

The 1999-2000 MSA Lecturers are Dr. Michael Hochella, Virginia Polytechnic Institute & State University, and Dr. Tracy Rushmer, University of Vermont. Each is offering two lectures. Mike Hochella is offering: *"Mineral-environment interfacial processes: How the solid earth talks to the hydrosphere, atmosphere, and biosphere"* and *"Nuclear and mining wastes: A scientific and societal look at lessons we have (and haven't) learned"*. Tracy Rushmer is offering: *"Cracks, fractures, and flow: Magmatic journeys through the Earth's crust"* and *"Earth's core: The great unexplored inner space."*

MSA would like to thank Guy Hovis, Lafayette University, for his five years of service as the MSA lecture coordinator. MSA would also like to welcome Helen Lang, University of West Virginia, as the new lecture coordinator.

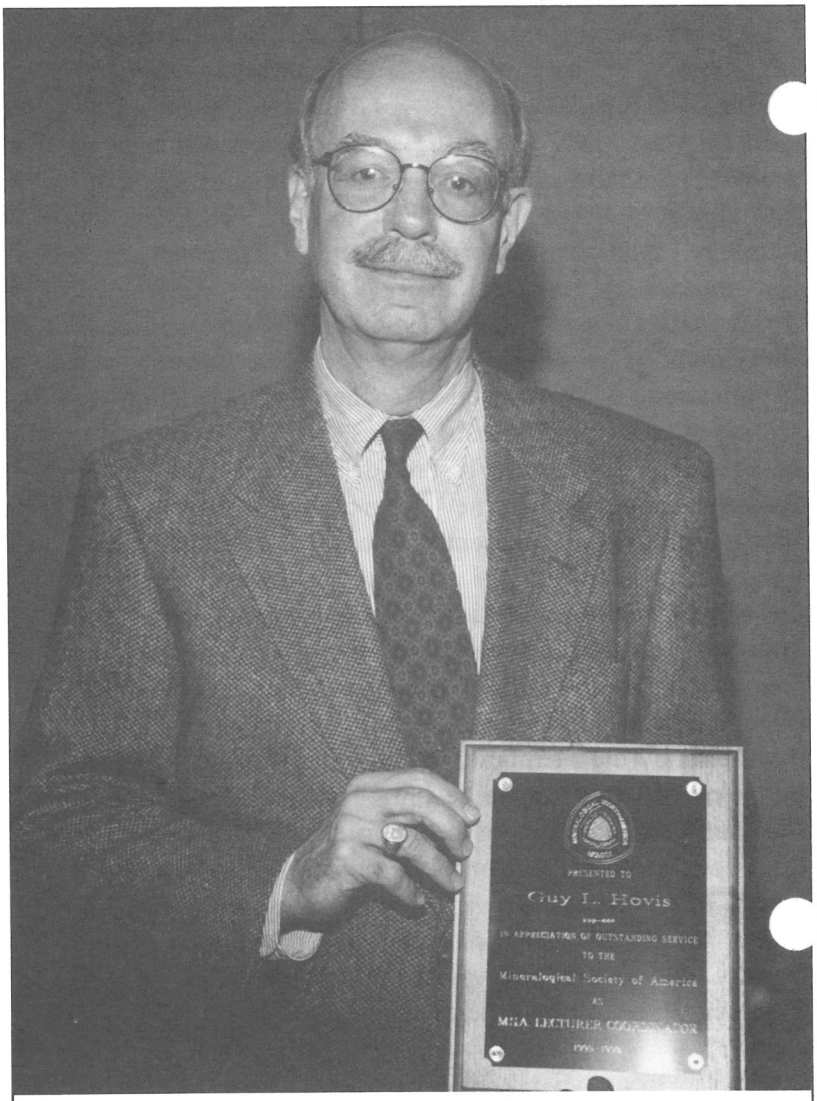
Endowment

We would love to send out additional lecturers, and our Benefactor's committee is busy at work increasing our endowment. Dave London, Benefactor's committee chair, has increased our corporate sponsorship three-fold to about $10,000 per year. We would like to continue this trend, targeting contributions for the Outreach fund and for short courses. If any of you would be willing to serve on the benefactor's committee, please let contact the new Secretary. You too can help. Please consider supporting one of MSA's very worthy causes: the lectureship, or the scholarship programs and help take MSA into the millennium.

Web site

MSA has fully entered cyberspace. You will notice that the web site has a new face. Our web site is now less complicated, easier and less expensive to maintain by MSA. Comments, content contributions, and, of course, volunteers to serve as editors for specific portions of the web site, are always welcome. Send any recommendations to the Outreach Committee Chair, John Brady, or our Scientific Administrator, J. Alex Speer.

Continue to check MSA's new web site for up-to-date information on what's happening, directory listings, membership and application forms, the new online store, grant and committee information, and of course, to view the *Lattice* before it reaches you via snail mail.



Guy Hovis with a plaque recognizing his five years of service to MSA as MSA Lecture Series coordinator.

Necrology

It is with regret and sadness that the Society announces the deaths of the following fellows and members reported to us during the past year:

Michael Fleischer, Life Fellow, 1937
Ernesto Galloni, Life Member, 1942
Julian R. Goldsmith, Life Fellow - 1950
Gerald D. Jungles, Member - 1970
Robert Kuehn, Member, 1967
Robert A. Laudise, Fellow - 1959
Bruce E. Nesbitt, Fellow - 1977
W. Arthur White, Life Fellow - 1945.

Our condolensces are extended to family and friends. Anyone who wishes to prepare a memorial for publication in the American Mineralogist, please contact the Business Office who is now serving in the capacity of the memorialist.

Committees

Each year many of you serve on committees for the MSA. A special thank you to each one of you. Without your help, MSA could not undertake its many functions to educate, grant money, and continue to serve our profession.

I would also like to thank Alex Speer, who keeps all of us in line and the operations of the Society running smoothly.

As I am retired as MSA secretary, I would like to personally thank you for the opportunity I've had to serve the society. I've enjoyed working with so many you in the hopes of continuing MSA's important function. MSA was one of the first societies that I joined as a student, and the one nearest to my heart.

I thank the Executive Editors of *Rocks and Minerals* and Douglas Kirkpatrick, Director of Heldref Publications, for helping to make the new association possible. I look forward to a productive relationship between our two organizations.

John Ferry
1999 MSA President

News from Rocks and Minerals

In the previous article John Ferry explains the new relationship between the MSA and *Rocks and Minerals* Magazine. As part of this association there will periodically be a column in the *Lattice* about upcoming features in the magazine that may be of special interest to MSA members. Examples include special theme issues such as the Sep/Oct 1999 issue on twinning in crystals or one of the many state mineralogy issues.

America's oldest popular magazine about minerals, *Rocks & Minerals* publishes articles of interest to all students of mineralogy, geology, and paleontology. The magazine is designed to meet the needs of the amateur in the field and the professional. Articles emphasize mineral and fossil locations, and the regular departments feature microminerals, current geologic events, book reviews, museum announcements, and show and Internet listings. Detailed collecting-locality listings appear periodically as do special state issues, which provide an in-depth look at a particular state. Color illustrations and photographs appear throughout each issue.

Authors interested in contributing to *Rocks and Minerals* should contact Marie Huizing for information and a copy of directions to contributors.

Marie Huizing
Managing Editor
5341 Thrasher Drive
Cincinnati, OH 45247
Phone/fax: 513-574-7142
E-mail: rocks&minerals@fuse.net

Upcoming features include: articles on the minerals of in Brazil in the Jan/Feb 2000 issue, in conjunction with the theme of the 2000 Tucson Gem and Mineral Society (TGMS) Symposium and Show; several articles on Colorado mineral locations in the Jul/Aug and Sep/Oct. 2000 issues; a theme issue on Russian minerals and mineral locations in the Jan/Feb 2001 issue, in conjunction with the 2001 TGMS show theme.

John Rakovan

"HELP WANTED"

Each year, approximately 1/3 of the Associate Editors for the American Mineralogist serve out their terms and need to be replaced. We are always in need of qualified individuals in fields like crystallography, spectroscopy, mineral chemistry, phase equilibria, and experimental methods, which are the areas seeing large numbers of manuscript submissions. So, the Editors get on the phone or send out E-mail messages in an attempt to bribe and cajole people to become AEs. Some individuals gladly accept our invitation while others do so reluctantly, but the majority of people whom we contact are unable to serve for a variety of legitimate reasons. The major problem is identifying people who could become AEs in key areas. As a result, what should be a simple and rapid process generally takes many weeks. This is especially problematic during those times in mid-cycle when new AEs need to be appointed to meet manuscript pressure in subfields wi' unexpectedly high submission rates.

We would like to alleviate some of the problems posed by the search for new AEs by inviting interested and qualified readers to contact us. Please include a brief list of those subfields in which you feel confident about handling manuscripts. This will enable us to establish a list of candidates for future possible appointments as AEs. Note, however, that final approval of all Associate Editor appointments is made by the MSA Council.

Anne M. Hofmeister
Robert F. Dymek
American Mineralogist Editors

All About Characters

Rachel Russell, American Mineralogist Managing Editor

I hope the dramatic changes in production methods at the *American Mineralogist* are completely invisible to the average reader. But I'm quite sure the average author has been surprised to see on the proofs that some (or possibly many) symbols and special characters haven't translated correctly. The ultimate solution will be for improved technology, and I have no doubt that's around the corner. But in the meantime, what can you submit as final revision that will have a greater chance of translating correctly?

First off, note that none of this matters in terms of what you submit. Make what you submit as readable for the reviewers as possible. Concentrate on the science you are trying to explain or study. But when things seem to be progressing happily and you've been asked to supply an electronic revised copy, then things get serious around here! However, I don't want the authors to be burdened with "codes" or formatting, and in fact, the less formatting the authors do, the better. Formatting is our job. Still, there are a few things authors can do that will produce a cleaner proof and thus give all of us an easier task.

The first thing to do is to use "symbol font" for symbol characters such as alpha, beta, chi, gamma, mu, and so on. So instead of using Word's special character box, type a regular a, highlight it, and change it to the symbol font. An alpha should appear on your screen (and print). I've actually made keyboard shortcuts on my Mac that let me do this quickly. However I have to find "by hand" each instance of the non-symbol symbol in order to convert it and that's why we miss some. Auto-finding, or searching and replacing, doesn't usually work, but sometimes it does work. That's why we all love computers!

For special symbols such as arrows and square root signs, I think there is no alternative to using the special character box. We must all be eagle-eyed in catching the mistranslations on the proof. Authors should keep especially alert for these symbols when reviewing their proofs. Every now and then, instead of mistranslating by inserting a nonsense character, it will mistranslate by putting nothing there at all, not even an extra space. That's particularly tricky to detect. The other comput trick is to insert a wrong symbol that's not complete nonsense at first glance. For example, we'll see 10% and think nothing is wrong, whereas the author will know that should be 10°.

For some reason, the computer's favorite thing to mistranslate are degree signs. It helps when the author uses the symbol for a degree sign, in Word on a Mac that is opt-shift-8. It is surprisingly time-consuming when the authors use superscripted or raised zeros or "ohs". Search-and-replace methods have been very helpful in this situation.

However, there are two cases where authors often go to too much trouble to "do it right". The first case is that of "stacked" characters. Authors can just superscript the supers and subscripts the subs, they do not need to actually stack them in Word. We do the stacking in PageMaker itself because any Word stacking ends up lost. Whatever you do, please do not use an equation editor to create simple in-line stacks! We have to retype each one of these. The second case of "working too hard" is that of overbars. We create the overbars in PageMaker, not Word, so each instance of overbars in Word or in an in-line equation box has to deleted. We type 3bar, for example, to mean an overbar goes over the 3. Authors could simply jot a line over the 3 on the hardcopy, or put a minus/hyphen sign in front,

(continued from previous page – Characters)

or even a note on the first instance to say some like "in l instances of P3, the 3 has an overbar." On the other nand, if it is easier or more comfortable for the authors to continue inserting the overbars, that's pretty understandable and we'll just work it out here.

I guess my final plea is that authors use superscripts and subscripts and NOT raised or lowered type!

In Memoriam

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

Eugene N. Cameron, Associated Life Fellow, 1934

Robert Neiman, Life Member, 1960

Smithsonian Collections to Close for Renovation

The Smithsonian Institution research Gem and Mineral Collections will be closed to researchers beginning approximately March 1, 2000 for about a year to a year and one-half. The closure is forced by a major renovation of the heating, ventilation, and air-conditioning ductwork in the Department of Mineral Sciences. During the renovation, the research collections will be covered and sealed for their protection and will not be accessible. The Smithsonian staff encourages researchers to try to anticipate any specimen needs for this period and make requests before March 1, 2000. Researchers are also encouraged to contact other museums for their specimen needs. An announcement will be made in "The Lattice" when the collection is reopened for "business".

Jeffrey E. Post
Smithsonian Institution
Washington, DC 20560-0119
Phone: (202) 357-4009; FAX: (202) 357-2476

Mineralogical Society of America Membership Application

To join the MSA, please send a completed copy of the application below, along with the required payments in U.S. funds, to the Mineralogical Society of America, 1015 Eighteenth St NW Ste 601, Washington DC 20036-5274, USA phone: (202) 775-4344; fax: (202) 775-0018; e-mail: business@minsocam.org website: www.minsocam.org

Preferred Mailing address:

Name: _____ Telephone: _____
First Middle Last

☐ Dr. _____ Fax: _____
☐ Prof. First Line of Address
☐ Mr. _____ E-mail: _____
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☐ Other: Specify _____ Birth Date: _____
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Personal Information:

Highest Degree earned: ☐ Doctorate ☐ Masters ☐ Bachelors ☐ No College Degree

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	Life Membership Dues (with journal)	$2000
	Student Member Dues (includes *American Mineralogist*)	$30.00
	Mineralogical Abstracts, published quarterly by the Mineralogical Society of Great Britain & Ireland	$48.00
	Physics and Chemistry of Minerals, published eight times a year by Springer-Verlag	$475
	Journal of Petrology, published twelve times a year by Oxford University Press	$355
	TOTAL	

Mineralogical Society of America

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Meeting Calendar 2000
2000

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6-11 9th Conference on Fission Track Dating and Thermochronology. Lorne, Victoria, Australia. *Details*: FT2000 Conference, School of Earth Sciences, The University of Melbourne, Parkville, 3052, Australia ; Tel.: +61-3-9344-7761; Fax: +61-3-9344-7761; E-mail: ft2000.unimelb.edu.au; WWW: www.ft2000.unimelb.edu.au

17-22 2000 Annual Meeting of the American Association for the Advancement of Science (AAAS). Washington, DC. *Details*: Program Committee, AAAS, 1200 New York Avenue, NW, Washington, DC 20005 USA ; Tel.: +1-202-326-6450; Fax: +1-202-289-4021.

March

5-9 7th International Symposium on Smart Structures and Materials Newport Beach California. *Details*: SPIE, PO Box 10, Bellingham WA 98227. Tel: 360-676-3290; Fax: 360-647-1445; WWW: www.spie.org/info/ss-nde/

13-17 31st Lunar and Planetary Science Conference Houston, Texas. *Details*: L. Simmons, Conference Administrator, LPI Publications and Program Services Department, 3600 Bay Area Boulevard, Houston, TX 77058-1113. Tel.: 281-486-2158; Fax: 281-486-2160; E-mail: simmons@lpi.jsc.nasa.gov.

26-28 Second RIDGE Workshop on Mantle Flow and Melt Generation beneath Mid-Ocean Ridges. Providence, Rhode Island. *Details*: P. Keller, RIDGE Office, College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR 97331; Tel.: 541-737-8141; Fax: 541-737-8142; E-mail: ridge@oce.orst.edu WWW: ridge.oce.orst.edu/calendar.html

April

16-19 8th International Symposium on Experimental Mineralogy, Petrology and Geochemistry (EMPG VIII). Bergmano, Italy. *Details*: EMPG VIII Organizing Committee, Dipartimento Scienze della Terra, Universita di Milano, Via Botticelli 23, 20133 Milano, Italy. WWW: www.congresscenter.bg.it

16-19 Fractal 2000 – Complexity and Fractals in the Sciences. Singapore. *Details:* Dr. M. M. Novak, School of Physics, Kingston University, Kingston-upon-Thames, Surrey KT1 2EE, UK ; Tel. +44-181-547-7481; Fax: +44-181-547-7562; E-mail: novak@kingston.ac.uk; WWW: www.kingston.ac.uk/fractal/

17-19 Geoscience 2000. Manchester, United Kingdom. *Details*: The Conference Office, The Geological Society, Burlington House, Piccadilly, London W1V OJU United Kingdom. Tel.: +0171-434-9944; Fax: +0171-494-0579; E-mail: geo2000@geolsoc.org.uk; WWW: www.geolsoc.org.uk.

24-28 5th International Symposium on Environmental Geochemistry (ISEG). Cape Town, S. Africa. *Details*: Deborah McTeer, Postgraduate Conference Division, UCT Medical School Observatory, 7925 RSA. Fax: 27-21-4486263. E-mail: deborah@medicine.uct.ac.za. WWW: www.uct.ac.za/depts/pgc

May

7-12 36th Forum on the Geology of Industrial Minerals. Bath, UK. *Details*: Peter Scott, Camborne School of Mines, University of Exeter, Redruth, Cornwall TR15 3SE Tel.: 01209-714866; Fax 01209-716977. WWW: E-mail: pscott@csm.ex.ac.uk.

9-13 5th International Conference on Clean Technologies for the Mining Industry. Santiago, Chile. *Details*: Ema Huenchul Cordova, Secretary of the Conference. E-mail: ctmi@udec.cl; WWW: www.met.udec.cl/eventos.html.

15-18 Geology and Ore Deposits 2000: the Great Basin and Beyond. Reno-Sparks, Nevada. Details: Geological Society of Nevada, PO Box 12021, Reno, NV 89510 USA ; Tel: +1-702-323-3500; Fax: +1-702-323-3599; E-mail:

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22.290-240, Brazil. Tel.: 55-21-295-5847, Fax: 55-21-295-8094, E-mail: 31igc@31igc.org.br.

September

3-8 Goldschmidt 2000. Oxford, UK. *Details*: P. Beattie, Cambridge Publications, Publications House, PO Box 27, Cambridge, UK CB1 4GL. Tel.: 44-1223-333438, Fax: 44-1223-333438, E-mail: gold2000@campublic.co.uk , WWW: http://www.campublic.co.uk/science/conference/Gold2000/

6-8 3rd Conference on Tectonic Problems of the San Andreas Fault System. Stanford, California. *Details*: B. Kovach, Department of Geophysics, Mitchell 360, Stanford University, Stanford, California, 943005-2215. Tel. 650-723-4827;Fax: 650-725-7344; E-mail: kov@pangea.stanford.edu. WWW: pangea.stanford.edu/GP/sanandreasconf.html.

November

13-16 GSA Annual Meeting. Reno, NV. *Details*: GSA Meetings Dept. Boulder, CO 80301-9140. Tel.: (303)-447-2020, Fax: (303)-447-1133. WWW: http://www.geosociety.org/meetings/index/htm

December

15-19 AGU Fall Meeting. San Francisco, CA. *Details*: AGU Meeting Department, 2000 Florida Ave., NW Washington, DC 20009. Tel.: 202-462-6900: Fax: 202-328-0566, E-mail: meetings@kosmos.agu.org, WWW: http://www.agu.org/meetings.

Welcome New Members!

We welcome the following as members of the Society. If you know of someone who would like to join MSA, or should join MSA, use the membership application appearing elsewhere in this issue of *The Lattice* or obtain one from either MSA's home page (http://www.minsocam.org/MSA/Membership_Appl.html) or the MSA Business Office, 1015 Eighteenth St NW Se 601, Washington, DC 20036-5274, USA; ph: (202) 775-4344; fax: (202) 775-0018; e-mail:L business@minsocam.org. The areas of interest on the application form have been increased in an attempt to cover the increasingly broader interests of our membership. They are: Mineralogy (MI), Crystallography/Crystal Chemistry (CC), Material Properties (PP), Igneous Petrology (IP), Metamorphic Petrology (MP), Sedimentary Petrology (SP), Geochemistry (GE), Phase Equilibria (PE), Econor Geology (EG), Clay Mineralogy (CM), Industrial Mineralogy (IM), Environmental Mineralogy (EM), Gems (GM), Planetary Materials (PM), Teaching (TC), Topologic Mineralogy (TP), Biological Mineral interactions (BM) and Others as indicated.

Abell , Mr. Paul A., Rensselear Polytechnic Institute, Dept Earth & Environmental Sci, Science Center 1C25, Troy NY ST180-3590. Ph: (518) 276-8463. Fax: (518) 276-6680. E-mail: abellp@rpi.edu. (ST-99). PM,MI,CC,BM

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Schmerr , Mr. Nicholas Charles, Beloit College, Box ST21, 700 College St, Beloit WI 53511-0000. Ph: . Fax: . E-mail: schmerrn@stu.beloit.edu. (ST-99).

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THE DEADLINE FOR THE FEBRUARY LATTICE IS JANUARY 23

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