



Mineralogical Society of America



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PRESIDENT'S LETTER



George Harlow

Marching for Science

As I write this message, Earth Day 2017 is around the corner and will be marked simultaneously by the first March for Science on April 22 in numerous capitals and cities on our planet. We must recall that Earth Day originated in another era of great concern about the well-being of the environment, both the natural one and the cultural one. We must remember that Earth Day was a response to our realization of the assault on the environment, but it was inspired, in some part, by the "Earth rise" images over the moon as recorded by NASA's Apollo missions, reminding us indelibly of the finiteness of Earth. Science and technology brought us these images, as well as the increasing damage to our home. Simultaneously, science has also helped us understand the problems and have gone on to vastly improve knowledge of what we term the Earth System, in all of its beautiful interactions of minerals, liquids, gases, biology, physics, chemistry, and *Homo sapiens*.

But now, we are faced with a denial of the results of scientific inquiry for its challenges to long-term technological practices. This has led to an assault on science, science education, science funding and on scientists' character. The quote "May you live in interesting times" is certainly appropriate for this period of challenge to the status quo for science, which many of my generation had come to take for granted—a respect for the scientific endeavor and for those who have chosen this path for their careers and avocation. I hope by the time you read this that the events will have turned out peacefully and been influential.

However, as I write as the President of MSA, I must address complaints that, with such a challenge to science, a society like ours should stand up and be counted. The challenge is largely one of government policy, which is the realm of politics. Individuals are guaranteed the freedom of speech in the United States, but institutions are not. Our dilemma is that MSA exists as a tax-exempt entity with restrictions on the degree with which it can participate in political speech. Our society is also an organization comprising members whose views may differ on what is becoming an ever-changing succession of issues that MSA is asked to support. There are many other entities comprising like-minded individuals organized under different sets of regulations that can more effectively operate in the realm of what is essentially politics. For example, our MSA-talk listserv can be used for many purposes related to science, exchange of scientific information and inquiry, announcements of jobs, meetings, opportunities, and news about our science and scientists. Nonetheless, our living in interesting times has brought this topic to the attention of the governing body of MSA, the MSA Council, and the ground rules for use of the listserv (posted at http://www.minsocam.org/msa/MSA_Talk.html) will be discussed and reevaluated at the next MSA Council meeting in May 2017. Results of these deliberations will be communicated in due course.

I hope you had a rewarding and well-trodden Earth Day.

George Harlow
2017 MSA President

 **VOTE**
2017 MSA ELECTIONS

NOTES FROM CHANTILLY

■ **Balloting for the 2017 election of MSA officers and councilors is underway.** The slate of candidates is as follows: President: Michael Brown, (University of Maryland); Vice President (one to be selected): Lukas P. Baumgartner (University of Lausanne) and Mickey E. Gunter, (University of Idaho). Secretary: Bryan C. Chakoumakos (Oak Ridge National Laboratory). Councilors (two to be selected): Martin Kunz (Lawrence Berkeley National Laboratory), Vincent J. Van Hinsberg (McGill University), Donna L. Whitney (University of Minnesota), and Jay J. Ague (Yale University). Thomas S. Duffy (Princeton University) continues in office as Treasurer. Continuing councilors will be Rajdeep Dasgupta (Rice University), Peter I. Nabelek (University of Missouri-Columbia), Sarah K. Carmichael (Appalachian State University), and Sarah C. Penniston-Dorland (University of Maryland). MSA members should have received their voting instructions by e-mail. Those who do not wish to vote online can request a paper ballot from the MSA Business Office. As always, the voting deadline is 1 August 2017.

■ **At the Geological Society of America annual meeting in Seattle (Washington, USA),** to be held 22–25 October 2017, MSA will have its Awards Lunch, MSA Presidential Address, Joint Reception among MSA, GS, and GSA's Mineralogy, Geochemistry, Petrology, and Volcanology (MGPV) Division, Annual Business Meeting, as well as the Council Meeting, and breakfasts for the Past Presidents and Associate Editors. The exhibit hall will be open Sunday (2–7 p.m.). Monday–Tuesday (10 a.m. – 6:30 p.m.), and Wednesday (10 a.m. – 2 p.m.).

The MSA Awards Lunch is Tuesday, 24 October 2017, at which the Roebling Medal will be presented to Edward M. Stolper (California Institute of Technology, Pasadena, California); the Dana Medal to Thomas W. Sisson (U.S. Geological Survey, Menlo Park, California); the MSA Award to Dustin Trail (University of Rochester, Rochester, New York); and the Distinguished Public Service Medal to David W. Mogk (Montana State University, Bozeman, Montana). The 2016–2017 MSA Distinguished Lecturers will also be recognized: John M. Cottle, Cin-Ty A. Lee, and Daniela Rubatto.

The MSA Awards Lectures, Annual Business Meeting, and Presidential Address session is Tuesday, 24 October 2017 at the Washington State Convention Center: Edward M. Stolper gives the Roebling Lecture at 3:00 p.m.; Thomas W. Sisson gives the Dana Medal Lecture at 3:30 p.m., Dustin Trail gives the MSA Award Lecture at 4:00 p.m. and George Harlow follows gives his MSA Presidential Address at 4:30 p.m. The MSA/GS/MGPV Joint Reception follows at 5:45–7:30 p.m.

Topical sessions have been proposed for awardees:

- T159. "Teasing New Information out of (Old) Zircon: In Honor of Dustin Trail, 2017 MSA Recipient", convenors are Stephen J. Mojzsis, E. Bruce Watson, Calvin F. Miller, T. Mark Harrison.
- T161. "Petrology across the Inner Solar System: In Honor of Roebling Medalist Ed Stolper", convenors are Paul D. Asimow, Harry Y. McSween Jr.

Also of note are two sessions, one in honor of a Past MSA President (2006), and another on the same theme as the new Reviews in Mineralogy and Geochemistry volume:

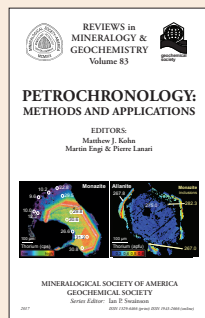
- T149. "Celebrating Dr. John W. Valley's Contributions to Isotope Geochemistry and Beyond, from the Hadean to the Holocene", convenors are Aaron J. Cavosie, Jade Star Lackey, William H. Peck.
- T163. "Petrochronology: Advances and Applications to Petrogenesis and Tectonics", convenors are Matthew J. Kohn, Pierre Lanari, Martin Engi.

J. Alex Speer, MSA Executive Director
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Reviews in Mineralogy and Geochemistry

Volume 83: **Petrochronology: Methods and Applications**

Matthew J. Kohn, Martin Engi, and Pierre Lanari, editors. i-xvii+580 pages. ISBN 978-0-939950-05-8



Petrochronology? Petrochronology is the study of rock samples that links time (i.e. ages or duration) with specific rock-forming processes and their physical conditions. A single date is virtually useless in understanding the history of magma crystallization or metamorphic pressure-temperature evolution. Petrologists and geochronologists strive to understand rock-forming processes, and the time and the rates at which they occur, by integrating numerous ages into the petrologic evolution of a rock. This volume covers phase relations and reaction sequences in petrochronology; local bulk composition effects on metamorphic mineral assemblages; diffusion; petrochronology by electron microprobe (EM), laser-ablation inductively coupled plasma mass spectrometry (LA-ICP-MS), secondary ionization mass spectrometry (SIMS) and thermal ionization mass spectrometry (TIMS) techniques; petrochronology of zircon, baddeleyite, monazite, allanite, xenotime, apatite, titanite, rutile, and garnet; and chronometry and speedometry of magmatic processes using chemical diffusion in olivine, plagioclase and pyroxenes.

Description and ordering online at www.minsocam.org or contact Mineralogical Society of America, 3635 Concorde Pkwy Ste 500, Chantilly, VA 20151-1110 USA phone: +1 (703)652-9950 fax: +1 (703) 652-9951 e-mail: business@minsocam.org. Cost is \$45 (\$33.75 members MSA, GS, CMS).

MINERALOGICAL SOCIETY OF AMERICA UNDERGRADUATE PRIZE FOR OUTSTANDING STUDENTS

The MSA welcomes the following exceptional students to the program's honor roll and wishes to thank the sponsors for enabling the Mineralogical Society of America to join in recognizing them. The Mineralogical Society of America's Undergraduate Prize (MSA-UP) is for students who have shown an outstanding interest and ability in mineralogy, petrology, crystallography, and geochemistry. Each student is presented a certificate at an awards ceremony at his or her university or college and receives a MSA student membership that includes a subscription to *American Mineralogist*, *Elements*, and a Reviews in Mineralogy and Geochemistry or an MSA Monograph volume chosen by the sponsor, student, or both.

Past MSA-UP awardees are listed on the MSA website, as well as instructions on how MSA members can nominate their students for the award.

- James Atterholt, Indiana University (USA). Sponsored by Prof. David Bish.
- Justin Takes Higa, University of Hawaii-Manoa (USA). Sponsored by Dr. Julia Hammer.
- Rebecca Canam, University of British Columbia (Canada). Sponsored by Dr. James Scoates.
- Johnna Lasmanis, Missouri University of Science & Technology (USA). Sponsored by Dr. John Hogan.
- Emily DiPadova, Smith College (USA). Sponsored by Dr. John Brady.
- Mathew Stephen Marcarelli, Williams College (USA). Sponsored by Prof. Reinhard Wobus.
- Brandon Downs, Missouri University of Science & Technology (USA). Sponsored by Dr. John Hogan.
- Melinda Marsh, Towson University (USA). Sponsored by Dr. Wendy Nelson.
- Marina Renee Fennell, University of California-Santa Barbara (USA). Sponsored by Prof. Frank Spera.
- John Sawyer Shaw, University of Vermont (USA). Sponsored by Dr. Julia Perdrial.
- Christopher FitzGerald, Indiana University (USA). Sponsored by Prof. David Bish.
- Madison Leigh Turner, University of Maryland (USA). Sponsored by Dr. Sarah Penniston-Dorland.
- Carolin Gräf, Goethe-Universität Frankfurt am Main (Germany). Sponsored by Dr. Alan Woodland.
- Damaris Wyatt, University of California-Santa Barbara (USA). Sponsored by Prof. Roberta Rudnick.

50- AND 25-YEAR MSA MEMBERS

The following individuals will reach 50 or 25 years of continuous membership in the Mineralogical Society of America during 2017. Their long support of the society is appreciated and is recognized by this list and by 25- or 50-year pins mailed this year. If you should be on this list and are not, or have not received your pin, please contact the MSA Business Office.

50-year Members

Rudolf Allmann
Charles E.S. Arps
Iris Y. Borg
Joseph V. Chernosky Jr.
Eugene L. Cisneros
Nicholas F. Davis
Howard W. Day
Fergus G.F. Gibb
Ilmari J. Haapala
C. M. B. Henderson
John R. Holloway
Guy L. Hovis
Odette B. James
Akira Kato
Klaus Langer
Anthony N. Lecheminant
Fred T. Mackenzie
Robert F. Martin
Robert H. McCallister
Peter J. Modreski
Giulio Morteani
Annibale P. Mottana
Enver Murad
Matsuo Nambu
Barbara P. Nash
Robert K. Popp
Douglas Rumble III
John Starkey
Jerry R. Weidner
Hans Rudolf Wenk

25-year Members

Christian Bender Koch
Krassimir N. Bozhilov
Bernardo Cesare
Seon Gyu Choi
Timothy W. Darling
Klaus Dieter Grevel
Bernard H. Grobety
John M. Hanchar
Pierre Hudon
Dawn Elizabeth Janney
Youn Joong Kim
Luis J.P.F. Neves
Fumito Nishi
David R.M. Pattison
Jeanne B. Percival
Walter Postl
Denis G. Rancourt
David A. Rothstein
Bernhardt Saini-Eidukat
Yungoo Song
Libby A. Stern
Margherita Superchi
Hirokazu Tabata
Josef Vajdak
Sieger R. Van Der Laan
Joseph Clancy White

2017-2018 MSA DISTINGUISHED LECTURERS

The Mineralogical Society of America is pleased to announce its Distinguished Lecturers and their lecture titles for 2017-2018:

Zachary D. Sharp (1) "The Neglected Middle Son: ^{17}O in Paleoclimate", and (2) "The Primordial Sources of Earth's Water".

Clara S. Chan (1) "The Tiniest Architects on Earth: How Microbes Make Minerals", and (2) "Using Modern Fe-Oxidizing Microbes to Unravel the Evolutionary and Geologic History of Fe Oxidation".

Jon Blundy (1) "From Ores to Eruptions - Rethinking the Architecture of Magmatic Systems", and (2) "Mount St. Helens Volcano - A Natural Laboratory Paradise for Petrologists".

MSA expresses its appreciation to these individuals for undertaking such a service to our science. If your institution is interested in requesting the visit of an MSA Distinguished Lecturer for 2017-2018, please contact the Lecture Program Administrator (http://www.minsocam.org/msa/Lecture_Prog.html). Requests received before 18 June 2017, will be given priority. Late applications will be considered on a space-available basis.

IN MEMORIAM

SAMUEL B. TREVES – Member, 1972

JOHN A. TOSSELL – Fellow, 2009