



Supplement to *Meteoritics & Planetary Science*, vol. 44, no. 9
The Meteoritical Society Newsletter
(October 2009)

A report of the business carried out by the society over the past year, edited by Jeff Grossman, Secretary.

FROM THE PRESIDENT

President's Editorial

Hiroko Nagahara

My term as the President of the Meteoritical Society began in January, 2009. I want to thank Joe Goldstein, the Past President, for his strong and thoughtful leadership for two years. My presidential work has been thoroughly supported by Jeff Grossman, our secretary, who has five years of experience as secretary and who pays attention to all the issues that the society faces. In the summer, we approved a big change in our journal, *Meteoritics and Planetary Science*, which will soon be published by Wiley-Blackwell. Over the last year, Rainer Wieler, leading the Society Publications Committee and several ad hoc committees, patiently negotiated with a number of publishers, and finally led us to an excellent contract with Wiley-Blackwell. The treasurer, Alan Rubin, has worked hard to solve a variety of longstanding tax and legal problems facing the society. We have a newly endowed award for the best oral presentation by a student at the annual meeting, in honor of the memory of Gordon A. McKay; Mini Wadhwa served as the first chair of the award committee at the Nancy meeting.

MAPS

We have published our journal beginning in 1953 as *Meteoritics* and, since 1996, as *Meteoritics and Planetary Science* (MAPS). It is a monthly international journal, with subscribers in 40 countries, half in the US and half in other countries. As Joe Goldstein described in the President's Editorial in the 2008 Newsletter, financial concerns together with changes affecting the world of scientific publication in general, led us to begin discussions of whether to continue to publish the journal by ourselves or turn to an outside publisher. At the March, 2008, council meeting, we constructed a "MAPS Planning Committee" specifically for this mission, and Rainer Wieler took the leadership role. The committee negotiated with a variety of publishers that are leaders in publishing many international scientific journals, and compared proposals by four of them. After long and repeated negotiations with the publishers and discussions with the Council, we finally decided to accept a contract with Wiley-Blackwell at the Council meeting in July held in Nancy. Wiley-Blackwell will begin to publish MAPS in January, 2010. Although this is a big change to the system, the manuscript submission and editorial system will not change: it will continue to be edited by Tim Jull out of the Tucson office. Ownership of the journal remains with the society.

After that, we evaluated how the change to Wiley affects our membership and dues policies, and our entire budget structure. An ad hoc committee chaired by Tim Swindle looked into these questions in great detail, and council accepted the committee's recommendations. In 2010, dues will remain at the same level as 2009 for members wishing to continue their print subscriptions to MAPS. However, members will have the option in 2010 of subscribing only to the electronic version of MAPS at a dues rate

that is ~25% lower. I announced these changes in an email sent to members on September 14, 2009.

This represents one of the biggest changes that the society has ever had, and I thank the many council members, special committee members, and other members who love the society for all of their dedicated efforts to lead us to the best answer and ensure the future of the society.

GCA

Geochimica et Cosmochimica Acta (GCA), one of the leading journals in earth and planetary sciences, is published by Elsevier with the joint support of the Geochemical Society and the Meteoritical Society. As we announced at the business meeting in Nancy, Elsevier has expressed its intention to terminate the existing contract with the two societies and negotiate a new one. Our new relationship between Wiley-Blackwell may or may not affect the relationship between us and Elsevier. Council has resolved to maintain our relationship with the Geochemical Society to promote geochemistry and cosmochemistry. You can expect to hear more about this in the coming year.

Annual Meetings

The 72nd annual meeting of the society was successfully held in Nancy, France, from July 13 to 18, 2009, including Bastille Day, with 524 participants, which was the second biggest meeting that the society ever had. I would like to thank Marc Chaussidon, Guy Libourel and Bernard Marty for their efforts as organizers. The 73rd meeting will be held from July 23 to 26, 2010, in New York, which was very quickly planned. Denton Ebel, Mike Weisberg, and Harold Connolly are working energetically on the preparations. After New York, meetings have been planned in Greenwich, UK (2011), Cairns,

Important reminders...

- Renew your membership by Jan. 1! Don't risk missing issues of MAPS. And, mailing you reminders is expensive. Renew online at <http://metsoc.meteoriticalsociety.net>.
- Nominate your colleagues and students for awards! All deadlines are in January. See page 3 for details.
- Nominations for new Fellows are also due in January.
- Make your hotel reservations early for the 2010 annual meeting New York. See page 4 for more information.
- Proposals to host the 2014 MetSoc meeting are due in March. Contact the secretary for procedures.

Australia (2012), and Edmonton, Canada (2013). Proposals for 2014 will be considered at the council meeting in Houston, next March.

Awards

At the Medal Ceremony during the 72nd annual meeting of the society in Nancy, I had the privilege of presenting the Leonard Medal to Lawrence Grossman, the Barringer Award to Uwe Reimold, the Nier Prize to Gordon Osinski, and the Service Award to Derek Sears. The awardees gave very impressive talks. I also want to congratulate the first winner of the newly established Gordon A. MacKay Award, which was won by Julia Cartwright, a student at the University of Manchester.

Finances

The society is in good shape financially. Although we experienced significant investment losses to the Endowment during

the global market downturn, we have been doing well in 2009 (see Tim Swindle's report below). The budget outlook for 2010 is very good and, as I said above, the new contract with Wiley will actually allow us to reduce dues for members who only want to receive an electronic version of MAPS.

Membership

The membership committee, chaired by Gary Huss, has been very active in 2009, helping us keep membership numbers high. There were ~950 members in 2009, including 671 full members, 119 student members, 141 retirees, and others. We have deployed membership brochures (http://www.meteoriticalsociety.org/membership_brochure.pdf), and distributed them at various conferences and meetings. I hope all the society members utilize this resource to help increase membership.

METEORITICS & PLANETARY SCIENCE

Editor's Report

A. J. Timothy Jull

I would like to summarize briefly the status of our journal, *Meteoritics and Planetary Science*. Scientifically, the journal is doing very well. There are some big changes coming in 2010. From 2010 onwards, the publishing aspects of the journal will be handled by Wiley-Blackwell. However, the remainder of the operations of the journal will continue as in the past.

We have transferred our electronic copies (2003 and onwards) of MAPS from Ingenta to the University of Arizona Library "Digital Commons". From 2010, the electronic hosting will be on Wiley Interscience's website. The University electronic copies will be maintained, but no new issues added.

Production of the journal using the existing publishing arrangements in Tucson have reduced the backlog of papers to operational levels and the printing of the journal has a delay of about 1-2 months. The printing and publication delay should be eliminated quickly with the new arrangements with Wiley-Blackwell. The journal office will no longer be responsible for typesetting and printing, which will be handled by the publisher directly.

The number of pages printed will remain about the same, although we have the possibility to expand the number of pages beyond our current number of about 2,300 pages per year.

Our journal currently operates with an annual budget of about \$375,000. We have 174 institutional subscribers and about 950 personal subscriptions. The Society supports the Journal from member subscriptions with a subsidy of \$98,200 per year. In the coming year, the Society subsidy of the journal will be greatly reduced; under the new arrangements with Wiley-Blackwell, the journal will be supported by an annual payment from Wiley-Blackwell, which, combined with royalties, will cover most expenses. In this new approach, the Society will have a net savings of about \$40,000 over the current support of the journal, as it will only pay Wiley-Blackwell for member subscriptions.

We will continue to use ScholarOne as the platform for submission and review of papers. Since this software platform is also used by Wiley-Blackwell, accepted papers will pass seamlessly to the publisher for typesetting and printing. A new addition will be "First Look", where you will be able to review your accepted paper for any minor errors and corrections. This will reduce errors on printing. Naturally, the author is still responsible for reviewing the final proof copy of the paper for errors.

If you have any immediate concerns about MAPS, please contact our office. We are always happy to assist both authors and subscribers.

We look forward to a successful year for MAPS in 2010 and the new partnership with Wiley-Blackwell.

SOCIETY AWARDS AND HONORS

New award winners

Currently, the Meteoritical Society has five awards, which are presented annually, and jointly sponsors the Pellas-Ryder Award for best student paper in planetary science. In addition, the Society now selects the winner of the Brian Mason Award. The society also elects fellows in years divisible by two, so there are none to announce in 2009.

The Leonard Medal honors outstanding contributions to the science of meteoritics and closely allied fields. It was established to honor the first president of the society, Frederick C. Leonard. In 2010, the Leonard Medal will be presented to **Hiroshi Takeda** for outstanding contributions to the study of meteorites, especially regarding the understanding of HED achondrites and the lunar crust.

The Barringer Medal and Award recognize outstanding work in the field of impact cratering and/or work that has led to a better understanding of impact phenomena. The Barringer Medal and Award honor the memory of D. Moreau Barringer and his son, D. Moreau Barringer, Jr., and are sponsored by the Barringer Crater Company. The 2010 Barringer Medal will be presented to **William K. Hartmann** for his fundamental contributions to impact crater studies, including development and refinement of crater isochrons, discovery of Mare Orientale, and his seminal work on the origin of the Moon. He also has enlightened the general public about planetary science through his numerous books and artwork.

The Nier Prize recognizes outstanding research in meteoritics and closely allied fields by young scientists. Recipients must be under 35 years old at the end of the calendar year in which the

council selects them. The award honors the memory of Alfred O. C. Nier, and is supported by an endowment established by Mrs. Ardis H. Nier. The 2010 Nier Prize will be presented to **Daniel Glavin** for important contributions in the field of organic cosmochemistry, including organic compounds in Martian meteorites, micrometeorites, and cometary samples from Stardust.

The Service Award honors members who have advanced the goals of the society to promote research and education in meteoritics and planetary science in ways other than by conducting scientific research. Winners are granted lifetime membership in the Meteoritical Society. The 2010 Service Award will be presented to **Joel Schiff**. Joel founded the quarterly publication, *Meteorite*, in 1995. The magazine serves as a forum for communication between amateurs, collectors, dealers, educators and researchers interested in meteorites.

The Pellas-Ryder Award for best student paper on planetary sciences is jointly sponsored by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America. It is given to undergraduate or graduate students who are first authors of a planetary science paper published in peer-reviewed scientific journals. This year's award, for best paper submitted in 2008, was given to **Bethany Ehlmann** of Brown University for her paper, "Orbital identification of carbonate-bearing rocks on Mars." (Ehlmann et al. (2008) *Science* **322**, no. 5909, pp. 1828 - 1832).

The Gordon A. McKay Award honors the memory of Gordon A. McKay. The award is given each year to the student who gives the best oral presentation at the annual meeting of the society. 2009 is the first year this award has been presented. The winner is **Julia Cartwright** of the University of Manchester, who spoke about "Halogens in Nakhla and NWA 998: evidence of Martian weathering?"

The Brian Mason Award is for the best Meteoritical Society meeting abstract submitted by a student who also agrees to publish a popular article in *Meteorite* magazine. The award is co-sponsored by the International Meteorite Collectors Association (IMCA) and *Meteorite*, with the selection being made by the program committee for the annual meeting. The 2009 Mason Award winner was **Gregory Brennecka** of Arizona State University for his abstract, "²³⁸U/²³⁵U variations in meteoritic materials: evidence for ²⁴⁷Cm in the early solar system and implications for Pb-Pb dating."

Complete lists of past award winners are available on the society website.

Award Committees

The Leonard Medal Committee, which nominates awardees for the Leonard Medal and the Nier Prize as well as society fellows, was chaired in 2009 by Christian Koeberl. The other members were Mike Gaffey, Monica Grady, Tim McCoy, and Conel Alexander. Monica Grady will be the new chair for 2010.

The members of the Barringer Medal Selection Committee this year were Natascha Artemieva (chair), Nadine Barlow, Christian Koeberl, and Joanna Morgan. In 2010, Nadine Barlow will chair the committee.

The Membership Committee administers the Service Award. In 2009, the members were Gary Huss (chair), Addi Bischoff, Hasnaa Chennaoui, Alex Ruzicka, Andreas Pack, and Akira Yamaguchi. In 2010, the committee will again be chaired by Gary Huss.

The Committee for the Pellas-Ryder Award was chaired this year by Herbert Frey, representing the Geological Society of America. The other participating members were Mike Weisberg and Christine

Floss (MetSoc), and Louise Prockter and Jayne Aubele (GSA). The chair the committee in 2010 has not yet been selected.

Nominations

A note from Monica Grady, Chair of the 2010 Leonard Medal Committee:

One of the most public activities that the Meteoritical Society undertakes is the award of medals and prizes in recognition of achievements made in the field of meteoritics and planetary sciences. The Leonard Medal is our senior award; recipients of the medal are scientists who have made significant contributions in meteoritics. The Barringer Medal is awarded for studies in cratering and impacts. The Nier Prize is awarded for achievements made by a young scientist. The Service Award recognized non-research contributions. And, the Pellas-Ryder award is for best paper published by a student. We make these awards every year. Once every two years, we also elect members of the Society as Fellows, for valuable (and valued) contributions that they have made to the Society, whether through their research or other service. It is now time to seek nominations for the next round of awards, including nominations for ~10 new Fellows.

This is probably an inglorious thought, but perhaps one of the most interesting aspects of being on a medal committee is looking at the list of distinguished members of the Society who haven't been awarded a medal, many of whom haven't even been nominated for a medal, because everyone thinks that either (a) they are so distinguished that they have already been awarded the medal or (b) someone else has already nominated them.

And here's another inglorious thought. Wouldn't it be better to be awarded a medal, knowing that you have beaten off hordes of other candidates, rather than because you were the only candidate? I hasten to add that there has never (to my knowledge) been only one candidate for any of our awards, and that, although we have a good field of candidates for consideration, it is always better to have too many candidates than too few.

I am sure that you, dear reader, have already guessed what the bottom line of this note is: look around at your friends, your foes, your colleagues, your boss, your students and your post-docs. Look and see who might be worthy of nomination. If there is someone you think might be a candidate, but you aren't sure whether they have been nominated, then please feel free to contact Jeff Grossman, the Secretary of the Society. He will be happy to help. If that fails, then contact me or one of the other committee chairs listed just below.

Nomination Procedures

Leonard Medal and Nier Prize *Deadline January 15, 2010*

Nominations for the Leonard Medal and Nier Prize should include: (a) a formal letter of nomination, (b) a biographical sketch of the candidate, (c) a list of publications covering the work to be considered for the award, (d) additional substantive information, such as statements as to the importance of the nominee's research to the field of meteoritics and/or to the research of others, (e) one seconding letter in support of the nomination (additional letters are encouraged). Nominations for the Nier Prize should also include the candidate's birth date; a nomination is void if the candidate will reach the age of 35 before the end of calendar year of the selection. If the research for the Nier Prize was performed and published with a research advisor or with multiple authors, a statement must be included that describes the nominee's leading role in the research. Electronic submissions are preferred, and should be sent to Dr.

Monica Grady (m.m.grady@open.ac.uk), The Open University, PSSRI, Walton Hall, Milton Keynes, England MK7 6AA, United Kingdom.

Society Fellows

Nominations for fellows should include a summary of the candidate's accomplishments (suggested length: ~150-200 words) together with a list of 5-10 of the candidate's most significant publications, including titles. Nominations should be sent to Monica Grady at the address given just above. [A list of all members who have ever been elected Fellow is at the end of this Newsletter.](#)

Barringer Medal

Deadline January 15, 2010

Nominating letters should include: (a) a biographical sketch of the candidate, (b) a summary and evaluation of the accomplishments of the candidate and the importance of the candidate's work, (c) a list of publications covering the work to be considered for the award, and (d) one or more seconding letters. Please send nominations to Dr. Nadine Barlow (nadine.barlow@nau.edu), Northern Arizona University, Physics and Astronomy, Box 6010, Flagstaff AZ 86011-6010, USA.

Service Award

Deadline Jan 31, 2010

Nominating letters should include a biographical sketch of the candidate and additional substantive information, such as statements as to the importance of the nominee's activities to the field of meteoritics and/or to the research of others. One or more seconding letters in support of the nomination are strongly encouraged. Send nominations to Dr. Gary R. Huss (ghuss@higp.hawaii.edu), Hawaii Institute of Geophysics and Planetology, University of Hawaii at Manoa, 1680 East-West Road, POST 504, Honolulu, HI 96822, USA.

Pellas-Ryder Award

Deadline January 31, 2010

Nominations should include the full citation of the paper and a brief description of the significance of the paper. Two letters of certification are required, one from the student's department head attesting that the individual was a student at the time of paper submission to the publishing journal, and another from the student's advisor detailing the portion of the work done by the student and contributed by others including the advisor. Send nominations to the acting chair, Dr. Christine Floss (floss@wustl.edu), Washington University, Dept. of Physics-Compton Hall, Campus Box 1105, 1 Brookings Drive, St. Louis MO 63130-4899, USA.

ANNUAL MEETINGS

2009 Nancy, France

Marc Chaussidon, Guy Libourel, Bernard Marty

The 72nd annual meeting of the society was held July 13- July 18, 2009, in Nancy, France. The venue for the meeting was the Faculty of Law located in the heart of downtown Nancy. This venue allowed us to have lunches and poster sessions in the patio of the Faculty of Law next to the three conference rooms, and thus to enhance discussions between the participants. The meeting received major support from Ministère de l'Enseignement Supérieur et de la Recherche, Lunar and Planetary Institute, Barringer Crater Company, Fonds Européen de Recherche et de Développement, Centre de Recherches Pétrographiques et Géochimiques, Institut National des Sciences de l'Univers, Centre National de la Recherche Scientifique, Région Lorraine and Planetary Studies Foundation.

A preconference field trip to the Rochechouart impact structure (southwest France), to which 29 attendees registered, was organized by Dr. Philippe Lambert from July 10 to July 13. A preconference workshop, "Experimentation and modeling in Cosmochemistry," was organized in Nancy from July 11 to July 13. One hundred attendees, 92 of whom also attended the Meteoritical Society meeting, registered for the workshop. The annual meeting started on Monday, 13 July, with a reception/ice breaker in the XVIIIth century Grands Salons de l'Hôtel de Ville on the famous Stanislas Square (Unesco world heritage) with tasting of Savigny Les Beaune, Chassagne Montrachet 1er Cru, Santenay 1er Cru and Beaune Vieilles Vignes. Tuesday, 14 July, Bastille day, was devoted to several different excursions in Lorraine region: the Verdun WWI battle fields in the North of Lorraine, the Toul vineyards, the Haroué and Lunéville castles near Nancy, the Baccarat glass factory and the Vosges mountains south of Nancy. The MetSoc attendees could enjoy the Bastille Day fireworks in Nancy on Tuesday night. Three parallel sessions were held on Wednesday, and otherwise two parallel sessions until the end of the meeting on Saturday at 13h. Two poster sessions (total of 206 posters) were held on Wednesday and Friday evenings. The banquet of the meeting was held on Thursday evening

in the Abbaye des Prémontrés in Pont à Mousson, 25 km north of Nancy, with champagne drinking on the Moselle riverside and diner in the magnificent church of the abbaye. The award ceremony and plenary lectures took place on Thursday afternoon. The Leonard medal was presented to Lawrence Grossman, the Barringer award to Wolf Uwe Reimold, the Nier prize to Gordon Osinski and the Service award to Derek Sears. The Barringer Lecture was given by French writer and journalist Jean Cavé. The 2009 Brian Mason prize was given to Gregory Brennecke.

Thanks to the support of the Lunar and Planetary Institute, the Barringer Carter Company, the Planetary Studies Foundation and the Centre de Recherches Pétrographiques et Géochimiques, 45 students received travel awards.

The attendance at the meeting was excellent, with a total of 524 registrations, including 57 masters or PhD students and 57 accompanying persons. The attendees were from USA (39%), France (20%), Germany (10%), Japan (9%), Great Britain (6%) and numerous other countries.

2010 New York, USA

Denton Ebel

The 73rd Annual Meeting of the Meteoritical Society will be held July 26-30, 2010, in New York City. The organizers and the American Museum of Natural History invite everyone to attend the meeting and sample the offerings of the City and surrounding attractions. We expect to have a full roster of interesting sessions. The first announcement is available on the LPI website <http://www.lpi.usra.edu> and more information is available on the local website <http://www.metsoc2010.org>.

The scientific sessions, including poster sessions, will be held at the Park Central Hotel (the conference hotel), close to Central Park in the heart of upper midtown Manhattan. The hotel is a twenty-minute walk from the American Museum of Natural History, across the street from Carnegie Hall, and close to many subway lines. We have blocked rooms at the conference hotel during the meeting at a very favorable rate of \$159.00 per night (single) and \$179.00 per

night (double), plus local hotel taxes. We urge early reservations, which may be booked through a link at the conference web site <http://www.metsoc2010.org>. This rate will apply for participants who arrive a few days early or stay a few days afterward, subject to availability. Every effort is being made to keep the meeting registration fees as low as possible.

The city is accessible by train from Newark and JFK International Airports, and by taxi from LaGuardia Airport. Low carbon footprint train service is available from many points within 1000 miles of New York (Boston; Springfield, Mass; Washington; Baltimore; Atlanta; Chicago).

For details about the schedule of scientific sessions, host and sponsors, banquet, travel grants, excursions and guest activities, post-conference field trip to Sterling Hill, pre-conference workshop, contact information, and foreign travel issues, please see the local meeting website at <http://www.metsoc2010.org>.

Important Dates:

March 17, 2010 Deadline: Indication of interest.
 March 17, 2010 Second announcement on-line (LPI).
 May 5, 2010 Deadline: Abstract submission.
 June 10, 2010 Final announcement, program, abstracts on-line
 July 24-25, 2010 Pre-conference workshop, "Meteorites & Disks"
 July 26-30, 2010 73rd annual meeting of the Meteoritical Society
 July 31, 2010 Post-conference field trip: Sterling Hill Mine.

MetSoc Meeting calendar

Year	Dates	Location	Contact
2010	July 26-30	New York, USA	Denton Ebel
2011	~Aug 8-12	Greenwich, UK	Gretchen Benedix
2012		Cairns, Australia	Trevor Ireland
2013		Edmonton, Canada	Chris Herd
2014		[Proposals considered at 2010 LPSC]	

ELECTION: COUNCIL FOR 2011-2012

A new council will take office in January 2011, with Ed Scott as President and Hiroko Nagahara as Past President. The Nominating Committee, chaired by Adrian Brearley, with members Sara Russell, Tom Burbine, Tomoki Nakamura, Dieter Stöffler, and Christine Floss, has submitted the following slate to stand for election:

Vice President:	Monica Grady	U.K.	(President elect)
Secretary:	Greg Herzog	U.S.	1st term
Treasurer:	Rhian Jones	U.S.	1st term
Councilors:	Gretchen Benedix	U.K.	2nd term
	Nancy Chabot	U.S.	1st term
	Hasnaa Chennaoui	Morocco	1st term
	Harold Connolly	U.S.	2nd term
	Alex Deutsch	Germany	2nd term
	Luigi Folco	Italy	1st term
	Keiji Misawa	Japan	2nd term
	Kevin Righter	U.S.	1st term

Note that the chair of the nominating committee, Adrian Brearley, did not participate in, nor was he copied on any discussions concerning the nomination for the post of treasurer once the name of his spouse, Rhian Jones, came under consideration; Dieter Stöffler served as acting chair for this nomination.

According to the constitution of the society, nominations for other candidates require a petition signed by at least 3% of the society's members (= 29) and should be submitted to the Secretary by **February 15, 2010**. If no candidates are nominated other than those listed above, the Secretary will declare these candidates elected by affirmation.

Brief biographies of the nominated officers and councilors:

Gretchen Benedix is a researcher in the Meteorites Division of the Department of Mineralogy at the Natural History Museum in London. Her research focuses on the petrology and geochemistry of meteorites to understand planet formation.

Nancy Chabot is a staff scientist at the Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland. Her research is directed towards understanding the evolution of planetary

bodies in the solar system, with a focus on experimental studies, iron meteorites, and planetary cores.

Hasnaa Chennaoui Aoudjehane is professor at the Hassan II University in Casablanca, Morocco. Her research interest focuses on the history and intensity of shock on meteorites by using cathodoluminescence techniques. She is currently member of the Nomenclature Committee and the Membership Committee of the Meteoritical Society.

Harold Connolly is a professor of earth and planetary sciences in the Department of Physical Sciences, Kingsborough Community College of CUNY, graduate faculty in Earth and Environmental Sciences at the Graduate Center of CUNY, adjunct associate professor of planetary sciences at the LPL, University of Arizona, and a research associate at the AMNH. His research focuses on constraining the origins and evolution of primitive planetary materials through combining petrologic investigations with astrophysical modeling.

Alex Deutsch is a professor at the Institute for Planetology, University of Münster. His research interests focus on various aspects of impact processes, ranging from isotope geology and shock experiments to the petrology of impactites.

Luigi Folco is Curator of the meteorite collection of the Museo Nazionale dell'Antartide, Siena University. His current research focuses on the petrology of meteorites, micrometeorites and microtektites, as well as the search for meteorites in hot and cold deserts. He is past member of the Nomenclature Committee of the Meteoritical Society and Associate Editor of the Meteoritical Bulletin.

Monica Grady is Professor of Planetary and Space Sciences at the Open University in Milton Keynes. Her research interests are in the fields of carbon and nitrogen stable isotope geochemistry of primitive meteorites and of Martian meteorites, interstellar components in meteorites, micrometeorites, and also in astrobiology and the possibilities of life elsewhere in the cosmos.

Gregory Herzog is a professor in the Department of Chemistry and Chemical Biology at Rutgers University in Piscataway New Jersey. His research focuses on cosmic-ray irradiation of extraterrestrial materials

Rhian Jones is an associate professor in the Department of Earth and Planetary Sciences at the University of New Mexico. Her research is directed toward understanding the early history of the solar system through petrological and isotopic studies of chondritic meteorites.

Keiji Misawa is an associate professor at the Antarctic Meteorite Research Center, National Institute of Polar Research, Japan. His research focuses on isotopic signatures of differentiated meteorites, including Martian and Moon rocks, to understand evolutionary histories of inner planets.

Kevin Righter is a research scientist and curator of the Antarctic meteorite collection at NASA Johnson Space Center. His research efforts include applying experimental petrology and geochemical analysis to understanding core formation in terrestrial planets, the origin of the Earth and Moon, and the role of water, oxygen, sulfur, and carbon on magmatic properties and phase equilibria.

Statement from VP nominee, Monica Grady: My biography is a bald statement of who I am and what I do. It does not give any flavour of what I have been doing in the thirty years (no, it can't really be thirty years since I started in meteoritics, can it?) I have been studying extraterrestrial materials. I started out as a stable isotope geochemist, analysing carbon in meteorites. I progressed from burning bits of grey powder to examining thin sections of meteorites when I moved in 1991 from the Open University to the Natural History Museum. I worked for many years under the guidance of Dr Bob Hutchison, who taught me how to recognize chondrules (but not necessarily how they formed). On Bob's retirement in 1997, I succeeded him as leader of the meteorite research team at the Museum. One of my main projects there was to edit the 5th edition of the *Catalogue of Meteorites*, which was produced in 2000. I suspect that this might be the last printed edition of the work, as it has been (quite rightly) superseded by electronic databases (especially the Meteoritical Bulletin Database) that can be updated far more rapidly and efficiently. I returned to the OU in 2005, where I dabble my fingers in lots of pies. I have some expertise in infra red and optical microspectroscopy, and have worked with astronomers in order to make connections between dust observed around stars with that analysed in the laboratory. I'm currently working with a team of Norwegian scientists to develop a miniature combined infra red spectrometer and microscope, for deployment on the surface of Mars or an asteroid. I have led major

research programmes studying meteorites; currently, my main work is in trying to understand the history of carbon and water on Mars, and interactions between surface, atmosphere and hydro(cryo)sphere through investigation of minor components in Martian meteorites.

I joined the Meteoritical Society in 1979, and served as Councillor from 1989 to 1992, and as Secretary from 1992 to 1998. I was elected to Fellowship in 2000. I was an Associate Editor of *Geochimica Cosmochimica Acta* from 2002-2005. Asteroid (4731) is named "Monicagrady" for me, so I have a vested interest in furthering understanding of the minor bodies that are a significant part of our planetary system. I am firmly committed to public outreach and education opportunities, and believe that the activities of the Meteoritical Society can play an important role in inspiring young people to become the next generation of scientists, technologists and engineers.

In the next few years, the Meteoritical Society will be facing some interesting challenges. One of those is the shift in publications from paper-based to electronic media. *Meteoritics and Planetary Sciences* is a highly-regarded journal, and its publication is probably the most high profile action of the Society. Switching publisher to Wiley-Blackwell will help us advance with the next wave of changes in the publishing industry - and I will be taking careful note that the interests of members of the Society are not lost when we become part of a bigger publishing consortium.

Another challenge that the Society continues to face is the collection of meteorites from desert locations, where unregulated trade in specimens can not only confuse the issue of a specimen's provenance, but also removes a valuable natural scientific and educational resource from its recovery site. This trade has greatly benefitted meteoriticists, especially in the provision of rare and unusual specimens for study. But we must be aware that the countries from which desert meteorites are currently collected are the owners of the specimens. I would like to see the Meteoritical Society helping to build and develop meteorite expertise within these countries, such that they too can benefit (possibly financially, certainly educationally) from the stones that have fallen from the sky to their land.

I am deeply honoured to be nominated as Vice-President of the Meteoritical Society, and if elected, I will serve the Society, further its aims and uphold its principles to the best of my ability.

—Monica Grady, 30th September 2009.

FINANCES

Treasurer's Report

Alan Rubin

Current Fiscal Year

Because of the new contract that the Society recently signed with Wiley, we received \$25,000 in start-up funds for MAPS last August and will receive \$85,000 per year to support the journal. Other revenue sources include membership dues and subscriptions (in the present fiscal year (FY) about \$82,000), subscription royalties and travel expenses from Wiley (about \$2400), and Elsevier royalties for GCA (approximately \$50,000). Society expenses will include support for the MAPS editorial office (in the present FY about \$90,000), GCA office support (\$7000), MSA office support (\$11,000), and about \$17,000 for various committees, awards, bank fees, travel support, tax assistance, tax-return filing fees, liability insurance, and website costs. I project a budget surplus in this FY of about \$120,000. This includes a one-year windfall associated with

the change-over to Wiley, which may be partially reduced by additional expenses we incur during the change-over period. This year's surplus also offsets most of the \$85,000 deficit we experienced last FY, largely due to an extra quarterly payment of \$24,500 made to the MAPS office in the last FY instead of this year and a late royalty check of \$58,000 received from Elsevier after the last FY ended. Over the long-term, the Society has been operating at a break-even level. In general, annual deficits and surpluses are due largely to cash-flow issues with some revenues in one fiscal year corresponding to expenses in another.

Assets

As of August 31, 2009, the Society's total assets were \$601,000, down from \$670,000 last year. The current assets include \$475,590 in investments and \$125,640 in two checking accounts and an on-line PayPal account. In June 2009, we loaned \$15,000 (which we

expect to be repaid) to the Local Organizing Committee of the 2010 annual meeting in New York. The investments are mostly from the Endowment Fund, but also include the Nier Fund (\$40,190) and the Gordon A. McKay Fund (\$41,180).

Gifts

We thank the 149 Society members who have generously contributed gifts to the Endowment, Nier Fund and McKay Fund in the past fiscal year. These contributions helped support workshops, awards, student travel and other activities. Tim Swindle made a particularly generous contribution. In addition, the following members contributed \$100 or more during the last fiscal year: Edward Anders, Friedrich Begemann, Scott Brey, Ghislaine Crozaz, Nicolas Dauphas, Paul De Carli, Jeremy Delaney, Henry Deyerle, Bevan French, Mike Gaffey, Serge Genest, Joe Goldstein, Edward Grew, Jeff Grossman, Othmar Jentsch, Tim Jull, Noriko Kita, Luc Labenne, Roy Lewis, Thornton McElvain, Douglas Ming, Keiji Misawa, Edmund Montgomery, Keisuke Nagao, Noboru Nakamura, Barbara Narendra, Michael Nolan, Edward Olsen, Herbert Palme, Robert Pepin, Thomas Rodman, Shoichi Saito, Melissa Strait, Anton Stuedi, Roger Tabor, Kazuya Takahashi, Heiner Thiel, Allan Treiman, Richard Walker and John Wasson.

Endowment Committee Report

Tim Swindle, Chair

The Endowment Committee oversees the Meteoritical Society's investments, and is also tasked with both building the Endowment and suggesting good ways to spend the income from it.

With the worldwide financial crisis of late 2008, our investments decreased in value by about 30% for calendar 2008. Even though our investment portfolio was designed to be fairly conservative, with roughly half the investments in bonds, the bond market was hit nearly as hard as the stock market in late 2008. During 2009, values have recovered significantly, and as of August 31, 2009, the addition of funds for the Gordon A. McKay Prize combined with the rising values of mutual funds have brought our investments back up to nearly \$500,000 (see the Treasurer's Report for more details).

Also as a result of the poor economy, we delayed a planned campaign to increase the Endowment, although we have now restarted those activities.

The most notable activity supported by the Endowment this year is the issuing of travel grants for the First Arab Impact Cratering and Astrogeology Conference, in Amman, Jordan. The Endowment Committee continues to seek projects worthy of support, particularly

outreach projects; below you will find the guidelines for proposals to spend Endowment money.

Guidelines for proposals to spend Endowment funds

Unless stated, these are guidelines, not requirements. The committee will consider proposals that do not meet some or all of these guidelines.

1. Typical amounts of grants have been \$1500 to \$3000. Matching funds from other sources are viewed favorably, but are not required.
2. These grants are designed for outreach, not merely advancing the research of members of the society. Outreach to members of the broader meteorite or asteroid community who are not members (such as meteorite collectors and dealers and amateur astronomers) are particularly encouraged. In addition, projects designed to educate the public, including general public groups, teachers, students and scientists in other fields, are also encouraged. Although previous grants have all supported meteorite-oriented activities, ideas related to other fields the Meteoritical Society encompasses (for example, lunar samples, asteroids, and impact craters) are also encouraged.
3. The Meteoritical Society should be acknowledged by name in any written materials coming from such projects, or in any presentations. This is a requirement.
4. Proposals should include the amount requested, other sources of funding (or sponsoring organizations), a tentative budget for how the funding will be used, and a description of the planned activity that is detailed enough for a diverse group of members of the Society to be able to make an informed decision. Proposals should be sent to either the Meteoritical Society secretary or the chair of the Endowment Committee, and should be received at least two months before funding is needed.
5. A one-page summary of the activity should be sent to the Meteoritical Society secretary or the chair of the Endowment Committee within one year of completion, including an estimated number of attendees, a brief description that can be used in explaining the type of programs that have been supported, and a brief critique of what worked well, or did not work well. Negative comments in a critique will not be considered negatively in future requests, particularly if ways to improve are identified.

METEORITE NOMENCLATURE COMMITTEE

Report of the chair

Kevin Righter

In 2008, the Nomenclature Committee (NomCom) approved names and information for 2365 meteorites that were published in *Meteoritical Bulletin* numbers 93 and 94, including close to 1800 from Antarctica (US, China, and Korea programs). The large numbers of meteorites handled by the committee continued in 2009 with 2673 new meteorites approved in *Meteoritical Bulletin* numbers 95 and 96 (in press), including 2278 from Antarctica. New falls reported in the 2009 bulletins include Almahata Sitta (Sudan), Sulagiri (India), Ash Creek (US), Maribo (Denmark), Bunburra Rockhole (Australia), Buzzard Coulee (India), and Tamdakht (Morocco).

At the end of 2008, NomCom chair Jutta Zipfel stepped down after twelve years on the committee, serving as chair in the last four. She led the committee and through years during which several important and complicated changes were instituted. Jutta's dedication to resolving these issues and her patience in listening to all committee members and ensuring a solid decision-making process are qualities that served the society well during her tenure – thanks Jutta! Similarly, during 2008, *Bulletin* editor Harold Connolly stepped down and Mike Weisberg took over as the new editor. Harold helped Mike to make this transition, and Mike has during 2009 agreed to be editor for another 3 year term. The huge volume of meteorite submissions in recent years has meant a large amount of work for the editors, both in tracking progress, and coordinating

voting. The society owes Harold and Mike a great debt for this job, which has become more demanding in recent years.

The committee is in the process of making the voting process more automated and electronic, reducing the amount of clerical work and time spent by the editor, and increasing the efficiency of the meteorite submission process. In addition, they are advising on the maintenance and host location of the Meteoritical Bulletin Database, edited by Jeff Grossman. In 2009, the National Institute of Polar Research in Tokyo agreed to submit all future meteorite finds from the Japanese Antarctic Research Expeditions to the NomCom and for official approval and publication in the *Meteoritical Bulletin*. We are indebted to editor Mike Weisberg and committee member Yamaguchi for arranging for this change and agreement.

During 2009, one member rotated off the committee after a short stint – thanks to Richard Ash for his service. We are pleased that Chris Herd has joined the committee for a three year term, and that S.V.S. Murty has agreed to serve a second term on the committee. At the end of 2009, the committee will see some turnover as we have three members rotate off – Mike Zolensky, Gretchen Benedix, and Kevin Righter. We are currently in the process of identifying new members and also a new chair, since I am stepping down at the end of the year having served two three year terms on the committee.

Finally a reminder - as in former years, valuable information on meteorite nomenclature, instructions and templates for reporting new meteorites may be found on our homepage,

http://meteoriticalsociety.org/simple_template.cfm?code=pub_bulletin.

From the Editor of the *Bulletin*

Mike Weisberg

The report from the chair of the Meteorite Nomenclature Committee, Kevin Righter, outlines the progress and accomplishments of the Committee over the past two years and describes current work being carried out to automate the meteorite submission and voting process. The editor would like to add that these efforts would not have been possible without the hard work and support of the chair. Kevin, now rotating off, has played an important role on the Nomenclature Committee. He served two terms (six years) as associate editor for Antarctic meteorites. This means that he organized and tabulated the thousands of American, Chinese and Korean Antarctic meteorites reported in the past several *Meteoritical Bulletins*; 1477 Antarctic meteorites are reported in the most recent *Meteoritical Bulletin* (no. 96, in press). In 2008 when Jutta Zipfel stepped down, Kevin willingly took over as chair of the committee and continued his responsibilities as associate editor for Antarctica. During the past year he has always been available to the editor for discussion and advice on nomenclature and classification issues and has been very supportive of the needs of the committee and editor. The editor truly appreciates the support that he has received from both Kevin and Jutta over the past few years.

MEMBERSHIP

Report of the Membership Committee

Gary Huss, chair

As of the close of 2009 membership, the Meteoritical Society has 953 members, very close to last year's membership. A surprisingly large number of former members (89) did not renew for 2009, but we had an almost equal number of new members. The new membership category for underdeveloped countries instituted last year seems to be working as expected. Eight members have joined the society under this new category. For 2010, there will be new dues rates for people who do not want a paper copy of MAPS. Regular members who want only an electronic subscription to MAPS will be able to save \$30, while students and retired members can save \$15 with an electronic-only subscription.

The transition in 2010 to publishing MAPS with Wiley-Blackwell will result in a change to the society's policy regarding members who are late in renewing their memberships. 2009 members who do not renew by Jan. 1, 2010, will be sent only two 2010 issues of MAPS. If they still have not renewed by the time the mailing list for the March issue is sent to the publisher (probably in late February), their memberships will be suspended, meaning they will miss print issues of the journal and be denied further electronic access. Payment of the delinquent dues after this date will restore electronic access to the journal and mailings of paper issues will resume, but any missed paper issues would have to be purchased from the publisher at the member's expense.

The membership committee is working to recruit new members and to find ways to increase the value of membership in the Meteoritical Society. Input from Society members is welcome and can be provided by e-mail at:

membership.committee@meteoriticalsociety.org

List of new members

The following people joined (or, in a few cases, rejoined) the society in the past year:

Regular/retired members: Olivier Alard, Jerome Aleon, Robert Barker, Piotr Beczala, Ulrich Blaess, David Blewett, Costanza Bonadiman, Carole Cordier, Bradley De Gregorio, Walter De Vos, Rodrigo del Olmo Sato, Hilary Downes, Steve Dulaney, Gary Finiol, William Finney, Gary Fujihara, Joe Gianninoto, Carsten Giessler, Mirko Graul, Andreas Gren, Lutz Hecht, Dirk Hohmann, Steen Jelgren, André Knöfel, Philippe Lambert, Chi Ma, Eric Mamajek, Jennifer Matzel, Michel Mercier, Vince Migliore, Ian Nicklin, Michel Ory, Thomas Prettyman, Nageswara Rao, Achim Raphael, Daniel Ross, Bernd Ruschinzik, Martin Schmieder, Gabriel Schmitt, Werner Schroer, Karen Shaddock, Muhammad Shareef, Christopher Sharp, Willis Shirk, Glenn Skinner, Douglas Smith, William Stanbro, Hanno Strufe, Robert Sylvia, Kimberly Tait, Claudiu Tanaselia, Heiner Thiel, Tomohiro Usui, James VanHorn, Thomas Webb, Ronald Whitehead, Sue Wirick.

Student members: Leonie Adolph, Waheed Akram, Tsolmon Amgaa, Raymond Borges, Gregory Brennecka, Glynn Bricker, Julia Cartwright, Hitesh Changela, Isabelle Domke, Michael Goodyear, Duane Hamacher, Ulrik Hans, Yoshihiro Hidaka, Marian Horstmann, Hwa Young Kim, Haruka Kusuno, Robert Macke, Daniel Ostrowski, Eric Palmer, Randal Paniello, Esther Posner, Aidan Ross, Julia Roszjar, Haley Sapers, Lev Spivak-Birndorf, Natasha Stephen, Aki Takigawa, Driss Takir, Reto Trappitsch, Mark Tyra, Boon Siong Wee, Molly Wick.

Facebook

The society has now established a presence on the Facebook social networking site (<http://www.facebook.com>). To get to our group page, log into the site and search for "Meteoritical Society". Cari Corrigan is the administrator of the page, with help from

Gretchen Benedix and Harold Connolly. We will use the site to post a variety of information, including advertisements for jobs, announcements of workshops and meetings, and other items of general interest to members. At present, 138 people have become members of our Facebook group. We hope that members will find the site useful; suggestions can be sent to Cari. For those of you who cannot or do not wish to use Facebook, rest assured that all important society communications will continue to be made through more traditional channels such as mail, email, our regular website, and this Newsletter.

Deaths

Dominique Jérôme (1941-2009) died on June 28, 2009, at the age of 68. Dominique had retired three years earlier from the "Conseil Régional d'Ile de France". He leaves a wife, Marie-Christine, and two children, Sylvain and Aurélie. —*Jean-Claude Lorin, Paris.*

O. Richard Norton (1937-2009) passed away at Hospice House in Bend, Oregon, on May 17 after a long illness. A life-long educator and the author of popular books and articles about meteorites, astronomy and planetariums, Richard discovered his life's passion when he built his first telescope at 14. His love for the sky and all things astronomical led him from an after-school job at Cave Optical Company in Long Beach, California, to a career in public science education.

While studying astronomy and meteoritics at UCLA, he was a lecturer at Griffith Observatory and Planetarium in Los Angeles. In 1957 he worked at the Nevada Test Site as a field researcher for the Atomic Energy Commission. There he witnessed the last 10 above-ground nuclear explosions and conducted research at the test site on the ecological effects of radiation. After graduation in 1960, he worked briefly as an optical engineer at Northrop Corporation and Tinsley Laboratories.

But he soon returned to his beloved planetariums. After 2 years at Morrison Planetarium in San Francisco, in 1963 he became Director of the University of Nevada's Fleischmann Planetarium in Reno, where he also taught astronomy. There Richard designed the world's first 35 mm fisheye motion picture system, called the Atmospherium, which was used to project realistic time-lapse motion pictures of developing weather systems onto the interior of a planetarium dome. His first book, *The Planetarium and Atmospherium, An Indoor Universe*, was published in 1969. He was a planetarium design engineer and consultant for Minolta Camera Company in Osaka, Japan. Richard became the founding director of the University of Arizona's Flandrau Planetarium in 1973, where he continued teaching and co-designed a fisheye projection camera system which flew on the Space Shuttle Challenger in 1984, producing the first full sky motion pictures from space. In 1978 he started Science Graphics, a company that manufactured sets of teaching slides in astronomy and other sciences for use in college level courses.

Richard loved teaching and sharing his enthusiasm for astronomy, the space program, photography, geology and telescope making. He gave public lectures and taught community education classes, even venturing into the Arizona State Penitentiary to teach in maximum security and protective custody. He led field trips to Cape Canaveral, where he had his fisheye cameras at most Apollo launches, and on solar eclipse trips around the world, from Mexico to Romania.

In 1986 he moved to Bend, where he taught astronomy at Central Oregon Community College for 7 years. In Bend he rediscovered his early passion for meteorites. His book *Rocks From Space* was published in 1994, followed by *The Cambridge Encyclopedia of Meteorites* in 2002. His wife Dorothy Sigler Norton, who is a scientific illustrator, produced the illustrations and cover designs. The Field Guide to Meteors and Meteorites, published in 2008, and was co-authored with Bend geologist Lawrence Chitwood. It was the recipient of the Mary B. Ansari Best Reference Work Award for 2009 from the GeoScience Information Society. He was also a contributing editor for *Meteorite* magazine and wrote the Centerpiece feature for 10 years.

Many of Richard's meteorites are on display at the Sunriver Nature Center in Sunriver, Oregon.

Richard loved classical music and had studied piano since the age of 7. In Bend, he started a series of concerts called the Four Seasons, which were held for more than 10 years at the Norton home on the equinoxes and solstices.

Richard is survived by his wife Dorothy, his sister Gloria Berg, three children from previous marriages and a granddaughter. — *Dorothy Norton, Bend, Oregon, and Joel Schiff, Auckland, New Zealand.*

Steven J. Ostro (1946-2008). The Secretary notes the death on December 15, 2008 of astronomer Steve Ostro, a longtime member and fellow of the society. Obituaries may be found at:

http://dps.aas.org/membership/in_memoriam/stevenostro
http://www.planetary.org/news/2008/1216_Steven_J_Ostro_1946__2008.html

Wolf von Engelhardt (1910-2008). Prof. Wolf Jürgen Freiherr von Engelhardt died on December 4, 2008, at the age of 98, in Tübingen, Germany.

Wolf von Engelhardt was born on 9 February 1910 in Dorpat (Tartu), Estonia. He received his university education at the University of Halle, Germany, and his PhD in 1935 at the University of Göttingen, Germany, under the supervision of the famous geochemist Victor Moritz Goldschmidt, with a dissertation on the geochemistry of barium. Later on, he joined the working group of Prof. Correns, the founder of modern sedimentology in Germany, at the University of Rostock. Wolf von Engelhardt completed the "Habilitation" (*venia legendi*) at Correns' institute, again back in Göttingen, in 1940, where he became Professor of Mineralogy in 1944. After World War II he joined Gewerkschaft Elwerath, a German oil exploration company. In 1957, he was appointed Professor of Mineralogy and Petrography and Director of the Mineralogisch-Petrographisches Institut of the University of Tübingen, where he remained until he became Professor Emeritus in 1978.

Wolf von Engelhardt was active as a scientist for more than 75 years and published more than 200 articles in journals and 20 books on a wide variety of topics. His fields of interest were extremely broad and often highly interdisciplinary. Starting as a geochemist, he became an expert in sedimentology of international reputation and published a three-volume book on sedimentary petrography in 1967 - a leading book of the time. Motivated by the discovery of coesite and stishovite in the Ries crater, he moved to a new field of interest: impact craters including shock metamorphism of rocks and minerals, and lunar and planetary science, where he became very soon a leading scientist. He participated very successfully in the study of lunar rocks as a Principal Investigator of the Apollo and Post-Apollo programs, together with his co-workers. Most impressive in Wolf

von Engelhardt's career has been his capability to combine natural science with philosophy and history of science. He has been instrumental in the modern analysis of the publications and manuscripts on natural science and geology by Germany's greatest poet, Johann Wolfgang von Goethe. Among many articles on this topic he edited more than a dozen of books on Goethe's "Naturwissenschaftliche Schriften." Moreover, he published articles on the great revolutions in geology, such as the debate between neptunists and plutonists and the big step from Earth-bound geology to planetary geology, which he called "the Copernican change in geology." Wolf von Engelhardt continued to do research, mainly in the field of impact cratering, and specifically on the Ries impact crater and related tektites, and on Goethe's studies of natural science well into his nineties. Among these many contributions are a most impressive article of 2001 on the debate between Goethe and Alexander von Humboldt entitled, "Goethe and Alexander von Humboldt - Bau und Geschichte der Erde" ("Constitution and History of the Earth") and a last major paper on impact processes - the formation of moldavite tektites - that appeared in 2005 in *Meteoritics and Planetary Science*.

Wolf von Engelhardt was an extraordinary teacher. His lectures, which covered a broad range of topics from crystallography to petrology, sedimentology, geochemistry, planetary geology, cosmic mineralogy, and philosophy of science, usually attracted very large numbers of students. Many of them received their diploma and PhD

under his supervision. Two of his PhD students were also awarded the Barringer Medal. Von Engelhardt was also quite active in university administration and professional organizations. From 1963-1964 he was Rektor (President) of the University of Tübingen and later President of the Deutsche Mineralogische Gesellschaft (German Mineralogical Association) and President of the Geologische Vereinigung (Geological Association).

On the occasion of his 75th birthday, he was awarded the "Großes Bundesverdienstkreuz," which is the highest and only honor conferred to individuals by the Federal Republic of Germany. This is only one of many honors he received during his scientific career. Two more examples are asteroid (4217) 1988 BO₂ that was named after him by Carolyn Shoemaker, and the Abraham-Gottlob-Werner Medal which he received in 1980 from the German Mineralogical Association. He also was one of the first "big five" recipients of the Barringer Medal of the Meteoritical Society: Shoemaker (1984), Dietz (1985), Gault (1986), von Engelhardt (1987), and Dence (1988).

We, as his students and grand-students, the whole scientific community in the field of planetary science, and the members of the Meteoritical Society have lost a great mentor, scholar and wonderful colleague of the old school. We will keep him firmly in our memory.

—Dieter Stöffler and Wolf Uwe Reimold, Berlin

BYLAWS CHANGES

Council passed a number of changes to the bylaws at the July meeting in France. The most significant changes were made to Article 12 – Meteorite Nomenclature Committee; this bylaw now recognizes the maintenance of the Meteoritical Bulletin Database as a society function and creates the post of Database Editor.

Insertions are in *italics*, deletions in ~~strike through~~. Only the affected sentences are shown. Full text of the Constitution and bylaws may be found on the society website.

Article 1, paragraph 1: Any applicant who is in sympathy with the purposes of the Society may ~~be elected by unanimous vote of the Executive Committee or by majority vote of the Council~~ *join by paying the full dues for the current year.*

Article 1, paragraph 3: Brief biographies of the candidates and a statement from the nominee for Vice-President shall be ~~mailed~~ *sent* to members by December 1.

Article 1, paragraph 4: Members of the Nominating Committee shall be selected *from the membership* to ensure balance with regard to age, area of expertise, and geographic representation.

Article 3, paragraph 4: The annual dues shall be fixed by the Council and payable ~~to the Treasurer on the date of election and~~ *prior to January 1 of each year thereafter.*

Article 4, paragraph 1: If possible, at least one meeting shall be held each year, for the delivery of scientific papers, addresses and other communications, and for the transaction of ~~any~~ *business* that may come before the Society.

Article 5, paragraph 2: ~~For urgent issues,~~ The Committee can authorize mail, *electronic*, or fax ballots, preceded by informal discussion, in lieu of a special meeting.

Article 5, paragraph 4: Advance notice of each special meeting, which shall include a statement of the nature of the business to be

transacted at the meeting, shall be prepared at the direction of the President and transmitted by the Secretary, ~~by mail, facsimile or telephone~~ at the earliest possible date, to each member of the Council.

Article 5, paragraph 5: If the President cannot attend a meeting of the Council, ~~he~~ *the President* shall appoint from the Council a temporary Chair~~man~~ who will serve in his *or her* stead. Should ~~he~~ *the President* fail to do this, the Council shall elect a temporary Chair~~man~~.

Article 5, paragraph 6: The President, or in ~~his~~ *the his* absence of the President the temporary Chair~~man~~, may invite other members of the Society to sit with the Council. ~~but~~ Any action approved by fewer members of the Council than four shall be subject to ratification by at least a majority vote, taken by the Secretary, ~~by mail or facsimile,~~ of the entire Council.

Article 5, paragraph 7: Any notice required or permitted by the bylaws to be given to members of Council may be given by mail, facsimile, ~~or~~ *or* telephone, *or electronic means.*

Article 5, paragraph 8: The proxy, signed and dated by the councilor delegating his *or her* vote, must be given to the Chair~~man~~ before the start of business.

Article 6, paragraph 2: Each year the President shall designate one member of the Committee to serve as Chair~~man~~.

Article 7, paragraph 5: [Added new section (c) and resequenced later sections] *c. To negotiate contracts with the journal's publisher. Such contracts and subsequent changes therein must be ratified by the Council.*

Article 10, paragraph 2: To aid the Committee in identifying candidates, the ~~Council~~ *Council Secretary* shall publish yearly a solicitation for Fellow nominations from the Society membership.

Article 10, paragraph 5: ~~An~~ Announcements of Fellows who have been elected shall be made during the annual meeting of the Society and ~~shall be published in Meteoritics and Planetary Science transmitted to all members by the end of the year.~~

Article 11, paragraph 2: The Chairman is appointed by the President for a one-year term.

Article 11, paragraph 3: Nominations for the Barringer Medal shall be solicited from Society members through annual announcements ~~in Meteoritics and Planetary Science.~~

Article 12, paragraph 4: The term of the Editor of the Meteoritical Bulletin shall be four years *and may be renewed without limit.* ~~An Editor may succeed himself/herself for a maximum of one additional term.~~

Article 13, paragraph 1: The Nier Prize honors the memory of Alfred O. Nier and is supported by *the Nier Fund, originally endowed by Mrs. Ardis H. Nier.*

Article 14, paragraph 1: ... for dissemination of this information by publishing the Meteoritical Bulletin in Meteoritics and Planetary Science *and maintaining the Meteoritical Bulletin Database.*

Article 14, paragraph 2: The Meteorite Nomenclature Committee shall consist of: *twelve appointed members plus four ex officio members, the latter being the Vice-President of the Society, the*

Editor of the Meteoritical Bulletin, the Editor of the Catalogue of Meteorites of The Natural History Museum, London, and the Editor of the Meteoritical Bulletin Database. Ex officio members shall have full voting privileges, except for the editor of the Meteoritical Bulletin Database, who shall participate in discussions but not vote. and 12 other members Appointed members are nominated by the Chair of the Nomenclature Committee and appointed by the President.

Article 14, paragraph 3: The President shall designate one of the *voting* members to serve as the Committee Chair.

Article 14, paragraph 4: To advise the Treasurer on the management of other Society monies and properties, such as the Nier *and McKay* Funds, Society income and other funds that may be established by the Council.

Article 14: [New paragraph 5 inserted; existing paragraph 5 renumbered 6]. *5. The term of the Editor of the Meteoritical Bulletin Database shall be four years and may be renewed without limit. One year before the end of a Database Editor's term, an ad hoc committee comprising the Chair of the Nomenclature Committee, the Editor of the Meteoritical Bulletin, and the Editor of the Catalogue of Meteorites shall nominate a Database Editor for the next term. Final selection of the Database Editor shall be made by Council.*

Fellows of the Meteoritical Society

Below is a list of all people, living and dead, known to have been elected Fellow of the Meteoritical Society. Please send corrections to the Secretary. Nominations for new fellows are due by January 15, 2010 (see Awards section on page 3).

Ahrens, L.	Clayton, Donald D.	Gianella, Vincent P.	Jones, Rhian	McCrosky, Richard E.	Pruett, J. Hugh
Albritton, Claude C., Jr.	Clayton, Robert N.	Gibson, Everett K. Jr.	Jull, A. J. T.	McIntosh, Bruce A.	Rajan, R. Sundar
Alexander, Conel	Cleminshaw, C. H.	Gillespie, D. M.	Kallemeyn, Gregory W.	McKeegan, Kevin	Rambaldi, Ermanno R.
Allegre, Claude	Cleverly, William H.	Gingrich, Curvin H.	Kaplan, Joseph	McKinley, D. W. R.	Ramdohr, Paul
Allen, H. Julian	Cobb, James C.	Glass, Billy P.	Kaspar, Jan	McKinnon, I. D. R.	Rankama, Kalervo
Amari, Sachiko	Cohen, Alvin J.	Goel, Parmatma S.	Keil, Klaus	McMath, Robert R.	Read, William F.
Anders, Edward	Comerford, Matthias F.	Kerridge, John F.	Kerridge, John F.	McSween, Harry Y.	Reaves, Gibson
Annexstad, John	Consolmagno, Guy J.	Goldschmidt, Victor M.	Khan, Mohd. A. R.	Megru, George	Reed, George W. Jr.
Arnold, James R.	Cook, Allan F. II	Goldstein, Joseph I.	Kieffer, Susan W.	Melosh, H. J.	Reedy, Robert C.
Arrhenius, Gustaf	Corlin, Axel	Goodrich, Cyrena A.	King, Arthur S.	Meullerried, F. K. G.	Reid, Arch M.
Axon, Howard	Coulson, Arthur L.	Goswami, Jitendra	King, Elbert A. Jr.	Meyerhoff, Howard A.	Reimold, Wolf Uwe
Baker, George	Cressy, Phillip J. Jr.	Grady, Monica	Kirsten, Till	Michel, Rolf	Reynolds, John H.
Baker, John L.	Crilley, Raymond E.	Graham, Andrew	Knox, Reed Jr.	Millman, Peter M.	Reynolds, Ray T.
Baker, Robert M. L. Jr.	Crozaz, Ghislaine	Grieve, Richard A. F.	Koerberl, Christian	Milton, Daniel J.	Rietmeijer, Frans J. M.
Baldwin, Ralph B.	Crozier, William D.	Grogler, Norbert	Kohman, Truman P.	Mittlefehldt, David W.	Riggs, F. Behn Jr.
Barker, John L. Jr.	Dachille, Frank	Grossman, Jeffrey N.	Korotev, Randy L.	Miyashiro, Akiho	Rinehart, John S.
Barnes, Virgil E.	Davis, Andrew	Grossman, Lawrence	Kraut, Francois	Monnig, Oscar E.	Ringwood, A. E.
Barringer, Brandon	Davis, Raymond Jr.	Gulen, Levent	Kring, David A.	Moore, Carleton B.	Robert, Francois
Barringer, D. Moreau Jr.	De Carli, Paul S.	Haas, Walter H.	Krinov, E. L.	Moulton, Forest Ray	Robinson, S. C.
Barringer, Drew N.	Delaney, Jeremy	Halliday, Alex N.	Krot, Alexander N.	Murayama, Sadao	Rodman, Thomas E.
Barringer, Richard	Dence, Michael Robert	Halliday, Ian	Kuiper, Gerald P.	Nagahara, Hiroko	Rowe, Marvin W.
Bartlam, E. R.	Deutsch, Alex	Hardy, Clyde T.	Kulik, Leonidas A.	Nelen, Joseph A.	Rowland, Gerald L.
Bauer, Carl A.	Dietz, Robert S.	Hartmann, William K.	Kunz, Adolf H.	Nelson, Harry E.	Rubin, Alan E.
Beck, Carl W.	Doan, Arthur S. Jr.	Harvey, Ralph P.	Kurat, Gero	Neuerburg, George J.	Rufus, W. Carl
Becker, Richard Henry	Dodd, Robert T. Jr.	Haskins, Larry A.	Kyte, Frank T.	Nichiporuk, Walter	Russell, John A.
Begemann, Friedrich	Douglas, J. A. V.	Hawkins, Gerald S.	Lal, Devendrar	Nichols, Henry W.	Russell, Sara S.
Bernatowicz, Thomas J.	Drake, Michael J.	Hawley, Fred G.	Lamar, Donald L.	Nier, Alfred O.	Sandford, Scott Alan
Binns, Raymond Albert	Dreibus-Kapp, Gerlind	Haynes, E. S.	Lampland, Carl O.	Nininger, Addie D.	Schaeffer, Oliver A.
Binzel, Richard P.	Duke, Michael B.	Head, James	Lance, Walter B.	Nininger, Harvey H.	Schaller, Waldemar T.
Birck, Jean-Louis	Dundon, Robert W.	Healy, Paul W.	Landsberg, Helmut E.	Nishiizumi, Kunihiko	Schmidt, Diether
Bischoff, Addi	Eberhardt, Peter	Heineman, Robert E.S.	Langway, Chester C. Jr.	Nishimura, Masakichi	Schmidt, Richard A. F.
Blander, Milton	Ebihara, Mitsuru	Hemenway, Curtis L.	LaPaz, Jean	Norris, Robert M.	Schmitt, Roman A.
Bobrovnikoff, N. T.	Ehmann, William D.	Henderson, Edward P.	LaPaz, Lincoln	Norton, O. Richard	Schnetzler, Charles C.
Bogard, Donald D.	El Goresy, Ahmed	Hendrickson, Morris S.	Larimer, John W.	Nuth, Joseph A. III	Schramm, David N.
Boon, John D.	Elston, Donald P.	Herr, Wilfrid	Lee, Typhoon	Nyquist, Lawrence E.	Schultz, Ludolf
Boothroyd, S. L.	Elston, Wolfgang E.	Herrick, Samuel, Jr.	Leonard, Frederick C.	Ogilvie, Ida H.	Schwartz, Gunther
Boss, Alan	Epstein, Samuel	Herzog, Gregory	Levi-Donati, G. R.	Ogilvie, Robert E.	Schwartz, N.
Boynton, William V.	Eugster, Otto	Herzog, Leonard F.	Lewis, Charles F.	O'Keefe, John A.	Scott, Edward R. D.
Bradley, John	Evans, Glen L.	Hess, Harry H.	Lewis, Roy Stephen	Olivier, Charles P.	Sears, Derek W. G.
Bradley, Walter W.	Evans, Robley D.	Hewins, Roger H.	Ley, Willy	Olsen, Edward	Sears, Paul M.
Brady, Lionel F.	Ewing, Maurice	Hey, Max H.	Lindblad, Bertil A.	Opik, E. J.	Shaub, B. M.
Brearely, Adrian	Farrington, Oliver C.	Heymann, Dieter	Linsley, Earle G.	Oro, Juan	Shaw, Denis
Brett, Robin	Fath, Edward A.	Hinterberger, Heinrich	Lipman, Charles B.	Orsini, P. Giordano	Shedlovsky, Julian
Brown, Harrison	Feigley, Bruce	Hodge, Paul W.	Lipschutz, Michael E.	Ostro, Steven J.	Shoemaker, Carolyn S.
Brownlee, Donald	Feibelman, Walter A.	Hodges, John V.	Lofgren, Gary	Ott, Ulrich	Shoemaker, Eugene M.
Bryson, Robert P.	Fenner, Charles	Hoffleit, Dorrit	Lonsdale, John T.	Oversby, Virginia M.	Short, James M.
Buchwald, Vagn	Finnegan, Bernard J.	Hohenberg, Charles M.	Lord, J. O.	Ozima, Minoru	Short, Nicholas M.
Buddhue, John Davis	Fireman, Edward L.	Honda, Masatake	Lovering, J. F.	Palache, Charles	Signer, Peter
Bunch, Theodore E.	Fisher, Clyde	Hoppe, Peter	Lugmair, Günter	Palme, Herbert	Silver, Leon T.
Burnett, Donald S.	Fisher, David E.	Horan, John R. Jr.	Lundquist, Charles A.	Paneth, F. A.	Smales, Albert A.
Buseck, Peter R.	Fisher, Irving S.	Horz, Friedrich	MacDougall, J. Doulgas	Papanastassiou, Dimitri	Smith, Edward S. C.
Butler, Clay P.	Fleischer, Robert L.	Houston, Walter Scott	MacPherson, Glenn J.	Papike, James J.	Smith, Joseph V.
Butler, G. M.	Flynn, George J.	Humiston, Lee E.	Manson, Vincent	Park, Fredrick R.	Snetsinger, Kenneth G.
Caffee, Mark W.	Folinsbee, Robert E.	Hunt, Walter F.	Marble, John P.	Pearl, Richard M.	Southworth, Richard B.
Cameron, Alastair G. W.	Foshag, W. F.	Hurley, Patrick M.	Maringer, Robert E.	Pellas, Paul	Spencer, L. J.
Cassen, Patrick M.	Foster, George E.	Huss, Gary	Marshall, Roy K.	Pepin, Robert O.	Sprenkel-Segel, Esther L.
Cassidy, William A.	Fredriksson, Kurt	Huss, Glenn I.	Marti, Kurt	Perry, Stuart H.	
Cassirer, M. F. W.	French, Bevan M.	Hutcheon, Ian D.	Marvin, Ursula B.	Petaev, Michail I.	Steele, Ian M.
Chamberlain, Von Del	Fricker, Peter E.	Hutchison, Robert	Mason, Brian H.	Philpotts, John A.	Stevenson, John S.
Chang, Sherwood	Frondel, Clifford	Ikeda, Yukio	Masuda, A.	Pillinger, Colin T.	Stockwell, H. O.
Chao, Edward C. T.	Fuchs, Louis H.	Innes, Morris J. S.	Mather, Kirtley F.	Pinson, William H. Jr.	Stöffler, Dieter
Chapman, Clark R.	Fudali, Robert F.	Ireland, Trevor R.	Matsuda, Jun-Ichi	Podosek, Frank A.	Stolper, Edward M.
Chapman, Dean R.	Gaffey, Michael J.	Jagoutz, Emil	Maurette, M.	Pollack, Sidney S.	Suess, Hans E.
Christophe-Michel-Levy, M.	Gault, Donale E.	James, Odette	Maynes, Albion D.	Powell, Benjamin N.	Swindle, Timothy D.
Clarke, Roy S. Jr.	Geiss, Johannes	Jarosewich, Eugene	McCoy, Timothy J.	Prinz, Martin	Takeda, Hiroshi
	Gentner, Wolfgang	Jessberger, Elmar K.	McCrea, William H.	Prouty, William F.	Tanner, James T.

Tatsumoto, Mitsunobu	Turekian, Karl K.	Wadhwa, Meenakshi	Weidenschilling, Stuart	Winchell, A. N.	Young, David M.
Taylor, G. Jeffrey	Turner, Grenville	Walker, Robert M.	Weisberg, Michael	Wisman, Franklin O.	Zahringer, J.
Taylor, Lawrence A.	Uhlig, Herbert H.	Walter, Louis S.	Wetherill, George W.	Wlotzka, Frank	Zanda, Brigitte
Taylor, Stuart Ross	Urey, Harold C.	Wänke, Heinrich	Whipple, Fred L.	Wood, John A.	Zimmerman, Walter W.
Thiemens, Mark	Van Schmus, W. R.	Wark, David	Whitney, Walter T.	Wright, Frances W.	Zinner, Ernst
Thiesmeyer, Lincoln R.	Van Tuyl, Francis M.	Warren, Paul H.	Wickman, Frans E.	Wylie, C. C.	Zolensky, Michael
Tombaugh, Clyde W.	Vance, R. C.	Wasserburg, Gerald J.	Wieler, Rainer	Wylie, Paul E.	
Tomeoka, Kazushige	von Engelhardt, Wolf	Wasson, John T.	Wiik, H. B.	Yanai, Keizo	
Treiman, Allan	Voshage, Hans	Webb, Robert W.	Wilkening, Laurel L.	Yates, Arthur Berkeley	