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*A report of the business carried out by The Society over the past year, edited by Michael K. Weisberg, Secretary.*

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### Important reminders

Please renew your membership before Dec 15 as the society has to pay the costs of mailing late reminders. Members renewing after March 31 incur a \$15 surcharge and risk missing issues of *MAPS*. You can renew online at <http://metsoc.meteoriticalsociety.net>.

Nominate your colleagues and students for awards. Nominations for Fellows will be considered this year. Deadlines are in January. See the Awards section for details.

Proposals to host the 2022 MetSoc meeting are due in March. Please contact the secretary for procedures.

## FROM THE PRESIDENT

### President's Report

The annual newsletter provides the President an opportunity to reflect on matters of interest to Society Members. First off I would like to thank Past President Mike Zolensky for all his hard work in keeping the Society moving forward. So too, thanks to Mike Weisberg and Candace Kohl for their continued efforts as Secretary and Treasurer respectively of our Society. Everyone knows that it is these two key figures who are the key players in keeping the Society active and engaged.

A particularly unique aspect of The Meteoritical Society is the Annual Meeting for which, the location is decided by Council typically 4 years in advance. Some of you might have noticed that in the next three years, there will be not be a meeting in the USA. This is not something Council has decided to put in to effect, but simply reflects the diversification of our

membership, and increasingly the commitment of an individual to take ownership of running our Meeting. I can say from experience that this is a somewhat daunting task, but for those of us who have done it, it has been a complete privilege and the memories generated go far beyond science, but are more akin to holding a family meeting. In fact it's much better than a family meeting because the arguments are actually enjoyable. We are always grateful for the applications to hold meetings that are made to Council. We know that even putting the application together is an effort in itself. If your bid is not selected in any given year, there is no prejudice against that location, it just reflects the desires of the Council for that particular year. So please, if you have made a bid and it has been turned down, consider resubmitting it. And, have a talk to the President if you need some feedback.

**MetSoc Annual Meeting Santa Fe 2017**

Thanks to the outstanding efforts of Karen Ziegler as the lead organizer of the 2017 Santa Fe meeting. It was a flawless event in a small and friendly town, with great weather (who cares about an evening thunderstorm), and a truly conference-friendly center.

This year the Barringer lecture was given by the first geologist on the Moon, Harrison (Jack) Schmidt. There is nothing like having the eyes of a geologist for observing what is going on in rocks. And, having Jack on the Moon representing us was really brought home in this engaging talk. Thank you Jack.

As usual, our Annual Meeting served up a number of unforgettable memories. I know you will all have your own favorites but here are mine. I never knew there were so many varieties of beans and chilies for breakfast lunch and dinner. I know a lot of people really enjoyed the band at the dinner; I still want to get a copy of any album that they produce. Who will forget the efforts of Denton Ebel and Monica Grady at karaoke?

### **MetSoc Annual Meeting Moscow 2018**

Over the past year or so, I have fielded a fair number of questions and a fair degree of advice concerning the Annual Meeting to be held in Moscow next year. There are a number of issues that have been raised. I know many of you have pondered these issues, as well as others, and that some may still be uncertain as to whether to go or not. Council has reaffirmed our commitment to the Moscow meeting on several occasions and remains in strong support of the meeting.

The countries where we have our meetings sometimes appear to be off the regular beaten path, but they are not unfamiliar places in terms of localities frequented by world events including sports, the arts, and so forth. Anybody travelling to a foreign country must be aware of their personal safety and anything that can affect that. We can always find something that can persuade us not to travel to a particular country, whether it be the commitment of time, travel costs (airfares, visas, accommodation), the politics, or simply the activation energy required to travel to somewhere new and different. Moscow is an international city with an outstanding cultural and scientific heritage. I urge all members to consider travelling to Moscow for 2018. I know it will be another outstanding event for The Meteoritical Society, and you need to come.

### **The Meteoritical Society Lecture**

This lecture is based on a financial allocation to the Annual Meteoritical Society Meeting to have an invited lecture on a topic of interest to Meteoritical Society Members. The first lecture was given by Maria Lugaro in Berlin last year on the topic of “Presolar Grains in Meteorites”. This year at Santa Fe, Mark Boslough gave a lecture on “Airbursts”. For those of us who lecture in Planetary Sciences, these were outstanding lectures providing information and insight to these topics. We are looking to upload the lectures on to our website so that those who came can access the information, and those who didn’t come can see what they missed out on. Next year in Moscow the speaker is Guy Consolmagno, who needs no introduction as a meteoriticist.

### **Finances**

Overall, The Meteoritical Society continues to be in good financial shape, in large part thanks to the membership and donations from our members. Our dues have remained stable over quite a long time now. The only change in the fees agreed to by Council concern the cost of the printed version of Meteoritics and Planetary Science. That simply reflects the ongoing pressures on the Publisher to move to an electronic form of the journal and the increasing costs of a limited production run. In effect, libraries have gone digital and the print run is increasingly being made for members only. It is understandable that many members enjoy the hardcopy. But the digital development and enhancements in the representation of journals on-line will increasingly lead to people using the electronic version. Two years ago we ran a poll concerning the provision of a hardcopy. Something like 50% of our members enjoy the hardcopy so we are sticking with it, and will do so while this option is available.

The Endowment Committee recommends to Council projects that should be funded by The Meteoritical Society finances. In the past this has largely been on an ad hoc basis, that is the EC considered a proposal when it came in. With an increasing number of requests, the EC has found itself in a position where the funding allocation could be consumed early in a given year thereby prejudicing consideration of later proposals. This year the Endowment Committee has formulated new policies concerning consideration of proposals such that they will do so only at two different times of the year. As such, meetings considering requesting funds should

note that the previous fast turnaround may not be possible and they may need to make a request up to 6 months in advance. If you are considering proposing, please consult the new EC funding guidelines posted on the web.

## Awards

Our Annual Meeting is also the time to celebrate the scientific achievements of our colleagues. It gave me great pleasure to present the Leonard Medal this year to Mark Thiemens (UCSD) for his pioneering and insightful work in the interpretation of the three-oxygen-isotope effects observed in meteorites and their inclusions. Next year the Leonard medal will be awarded to Alexander Krot (University of Hawai'i). Sasha is well known to all of us for his meticulous petrological work, including chemical and isotopic constraints, and putting it all in to context of the solar nebula (and of course regularly getting it published in *Nature* and *Science*). It will be even more enjoyable to present Sasha with this award in his home country.

This year the Barringer Award was presented to Akira Fujiwara for his pioneering work on impact related phenomena on planetary bodies. I would also note that Fujiwara-sensei was the Project Scientist of the Hayabusa Mission and successfully navigated Hayabusa to Itokawa, and more importantly, brought it home. Next year the Barringer Award will be presented to Thomas Kenkmann (Universität Freiburg) for his work in understanding of impact deformation recorded in terrestrial craters.

The Nier Prize is our award made to an outstanding early-career scientist working in meteoritics or related areas. This year I was pleased to present the Prize to Francis McCubbin (NASA JSC) for his key work in understanding volatile distributions in early planetary bodies. Next year, the Nier Prize will be presented to Lydia Hallis for her contributions to understanding the origins of volatiles in planets.

The Service Award acknowledges the efforts put in by an individual who is not a researcher to further the study of Meteoritics. This year the Service Award was presented to Cecilia (Cesquilia) Satterwhite (NASA JSC). Anybody working with meteorites know this is a highly appropriate choice because there will be few of us who have not made a request from Cecilia. It is not just moving these requests along but for offering insight to the curatorial side of the request and offering advice concerning the request including suggesting alternatives. In 2018 the Service Award

will be presented to Linda Martel. Linda is recognized for advancing of the goals of the Society and the far-reaching impact of her work. Her contribution to the Society's goals is accomplished through the *Planetary Science Research Discoveries* online magazine.

The McKay Award recognizes outstanding effort by the newest members of our Society, our students! At our Annual Meeting, the McKay Award Committee Chair Tasha Dunn organized a large team of people to be present at all the student presentations including orals and posters. It is never an easy task, as the standard of presentations is always incredibly high. Our 2017 McKay Award winner was Jennika Greer (University of Chicago) for the presentation "Atom Probe Tomography of Lunar Regolith Ilmenite Grain Surfaces".

Our four Wiley Award winners are Lionel G. Vacher (Université de Lorraine, France), Daniel R. Dunlap (Arizona State University), Maximilien J. Verdier (Muséum National d'Histoire Naturelle, Paris), Jonas Pape (University of Bern). A more detailed report of the winners appears later in this Newsletter. Thanks to Tasha and her team for carrying out this work.

I would also like to say a big thank you to all the sponsors, and especially the Barringer family (our Society's oldest and best friends), who make it possible for so many students to attend the annual meeting. Student travel is also provided through a NASA Grant, which for this year was prepared by Allen Treiman. Thank you Allen for this selfless proposal writing. Student travel money was also provided by the International Meteorite Collectors Association who designate it as the Brian Mason Award, and by our good friends at the Planetary Studies Foundation (with a big thanks especially to Paul and Diane). Darryl Pitt/Macovich Collection also provided money for student travel. We thank the Elsevier Publishing Company for their generous grant, which provides for the Elsevier Early Career Scientist Travel Award.

The Awards ceremony is a reminder that one of the easiest and most valuable ways in which you can contribute to the Society is through nomination of your colleagues for the different awards, whether it be as an early-career scientist, or for achievements following a distinguished career. There are several different committees to whom nominations should be made, and details are available below and on our Society website. This year we will also be electing Society Fellows.

Please don't assume that somebody else will nominate that worthy person you know. If you are surprised someone has never received a particular award, it could be just that no-one has nominated them. So don't take that surprise as an answer, take the initiative and nominate them yourself.

**Committees**

The Meteoritical Society could not function without its committees. A big note of thanks to all you involved. The Nominating Committee has prepared a new slate of Officers to commence in 2019. If you are approached to sit on Council or other committees please give it due consideration, and then accept. If you would like to volunteer, please get in touch with me.

A cornerstone of The Meteoritical Society is the assessment of meteorite classification from submissions to the Nomenclature Committee. This is a big task going from the work of the NomCom through to the publication of the reports in the Meteoritical Bulletin and the online Meteoritical Bulletin Database. This year Audrey Bouvier is stepping down as Editor of the Meteoritical Bulletin. I would like to thank her for the dedication she has

shown in carrying out this substantial task. The new editor will be Jérôme Gattacceca.

**In Memoriam**

Finally we should take a moment and pause and reflect on some of our distinguished members and friends who have passed away this year.

- Arthur Ehlmann
- Fara Lindsay
- Gerald Rowland
- Gemmarosa Levi Donati
- Lawrence (Larry) Taylor

Please check the website for details of their life and work.

So finally, thanks to all of you for your part in making The Meteoritical Society such a special organization, and best wishes for a fruitful 2018.

Trevor Ireland  
October 2017

UPCOMING MEETINGS			
Year	Location	Dates	Contact
2018	Moscow, Russia	July 22-27	Marina Ivanova, at metsoc2018@gmail.com
2019	Glasgow, Scotland	August 9-14	Lydia Hallis, at Lydia.Hallis@glasgow.ac.uk
2020	Sapporo, Japan	July 7-12	Hisayoshi Yurimoto, at yuri@ep.sci.hokudai.ac.jp
2021	Chicago, USA	TBD	Philip Heck, at prheck@fieldmuseum.org

TBD-To be determined.

## ANNUAL MEETINGS



Group photo at the 80<sup>th</sup> Annual Meeting in Santa Fe.

### 2017 Santa Fe, New Mexico, USA

The 80<sup>th</sup> Annual Meeting of The Meteoritical Society was held in Santa Fe (New Mexico, USA) from July 23<sup>rd</sup> to 28<sup>th</sup> 2017. The conference took place in the Santa Fe Convention Center in the NM state capitol Santa Fe. With 410 registered participants, this Annual Meeting was an average size for the North American MetSoc meetings. In total, 418 abstracts were accepted for 264 oral and 154 poster presentations. Oral presentations were scheduled in three parallel sessions from Monday till Friday, and all posters were on display for the duration of the entire conference week.

Of the 410 registrants, 370 were scientists, 84 were student participants, 34 guests, and 6 were 1-day registrants. A total of 284 registrants were MetSoc members.

A total of 41 travel awards could be allocated to student members, early career scientists, and scientists from low-income countries through generous sponsorships donated by the Barringer Crater Company, the NASA Cosmochemistry Program, the International Meteorite Collectors Association (IMCA), the Planetary Studies Foundation (PSF), Elsevier, and the Meteoritical Society Endowment and TIM Fund.

The conference kicked off on Sunday, July 23<sup>rd</sup> with registration in the La Fonda Hotel, as well, as two pre-conference workshops: “Recognizing the Criteria for Ancient Impact Structures” (Drs. Aaron Cavosie and Shawn Wright); and “Mars Sample Return: Sample Priorities, Investigations and Measurements” (Drs. Dave Beaty and Hap McSween). The day concluded with the Welcome Function held in the Ballroom of the La Fonda Hotel, and with Spanish Flamenco entertainment.

The scientific program covered 26 topics including Achondrites, Carbonaceous Chondrites, Ordinary Chondrites, Chondrules, Sample Return Analyses, Volatiles, Solar System Chronology, Impacts, Mars, 40 seasons of AnsMet, Geochemistry of Lunar Meteorites, Organic Matter, Presolar grains, IDPs, Differentiated Bodies.

The Annual Barringer Invitational Lecture on Monday evening was presented by Harrison “Jack” Schmitt, the only trained geologist to ever have walked on the moon. His outstanding and entertaining lecture about his adventures as a lunar astronaut and the geology of the moon received minutes of standing ovations, and was one of the highlights of the Conference.



Harrison Schmitt delivering the Barringer Lecture.



Barringer Medal winner: Prof. Akira Fujiwara.

The Special Annual Lecturer, sponsored by MetSoc, on Thursday morning was Dr. Mark Boslough. He presented a fascinating and captivating story on “Explosions in the Sky: The Science of Airbursts”.

The Society’s Award Ceremony, and the Leonard Medal and Barringer Award medalist talks by Profs. Mark Thiemens and Akira Fujiwara, respectively, were presented on Wednesday morning, July 26<sup>th</sup>.



Leonard Medal winner: Prof. Mark Thiemens.

Following the award ceremony, most conference attendants enjoyed exploring and enjoying the beautiful City of Santa Fe. Two separate field trips to the Santa Fe Impact Structure were offered as well, and were highly popular.

Later that evening, the annual Conference Banquet was held at the La Fonda Hotel. Following drinks and live Mariachi entertainment, the delicious buffet was opened. However, THE big hit of the Banquet was the following Karaoke! You have never seen so many meteorite-, cosmo-, planetary-scientists enjoy and sing and dance away their souls!! Everybody seemed to have the times of their lives! (note to future MetSoc organizers: please let this become a “tradition”).

To conclude on the topic of festivities, both poster sessions on Tuesday and Thursday evenings were well catered for, were very well attended, and hopefully many good discussions were made over drinks and posters – the beautiful setting of the poster rooms opening up into the sunny courtyard certainly did help and encourage exchanges between young and old.

We also had, during Tuesday lunch, for the first time at MetSoc, a “students’ meet & greet” at the beautiful terrace of the La Fonda. We offered this event as a free event (to encourage students participation), sandwiches and beer; it was a success. I received plenty of very positive feedback from both students and the “senior scientists”, and I urge future MetSoc organizers to keep this event in mind.

The conference concluded on Friday afternoon with a Farewell function, where we were entertained by a Native American flute trio that enchanted many of us.

Two post-conference field-trips were offered and well attended:

- (1) A 3-day trip to the Meteor Crater & Northern Arizona; Saturday, July 29 - Monday 31, 2017 (Dr. David Kring);
- (2) Rio Puerco Volcanic Field (Roots of Volcanoes, Mantle Nodules, Marine Sediments, and Western Rio Grande Rift; Saturday, July 29, 2017, led by Drs. Larry Crumpler, Jayne Aubele).

So was the post-Conference Workshop “Martian Meteorites Under the Microscope (Dr. Tony Irving) that was very successfully held on the UNM campus in the Institute of Meteoritics on Saturday, July 29th.

The conference program and abstract volume can be accessed on the website of the Lunar and Planetary Institute: <https://www.hou.usra.edu/meetings/metsoc2017/pdf/program.pdf>, and on the dedicated conference website: <http://metsoc2017-santafe.com/>

This report would not be complete without thanking the numerous colleagues and students, whose tireless efforts made it all possible. We want to emphasize the dedicated support from the members of the Local Organizing Committee, the Scientific Program Committee, and the Travel Award Committee, and from all those who made themselves available as judges of student presentations, guides on conference tours, student assistants, and in many other functions.

MetSoc 2017, Chair of local organizing committee  
Karen Ziegler  
October 2017

### 2018 Annual Meeting in Moscow, Russia

You are cordially invited to attend the 81<sup>st</sup> Annual Meeting of The Meteoritical Society, which will take place July 22-27, 2018, in Moscow, Russia.

The meeting is jointly organized by the V.I. Vernadsky Institute of Geochemistry and Analytical Chemistry of Russian Academy of Sciences, V. I. Vernadsky Geological State Museum, Russian Academy of Sciences, the Ural Federal University and the Kazan Federal University.

Most foreign citizens require a visa to enter the Russian Federation. We strongly recommend applying for a tourist visa. «Aim Tourism» visa

includes: exhibition visit, participation in conferences and other events. Travel arrangement including visa support, accommodation, transportation, and guided tours will be provided by “Reisebuero WELT” Company. Please follow the link for TRAVEL ARRANGEMENT on our website (metsoc81-moscow.ru).

Oral and poster sessions will take place throughout the week at the Academy of Science Presidium building (“Golden Brain”) in conference the halls; plenary sessions, invited lectures, including Barringer lecture and the Award ceremony will take place in the largest hall that seats 1000 participants. The facility will also house all poster sessions.



Conference registration begins at 4pm on Sunday, July 22, 2017, at the V. I. Vernadsky State Geological Museum in the Moscow historical center, right across the Red Square and the Kremlin. At 5.00 pm that day a Welcome Party will be held in the Museum. On the afternoon of the Wednesday meeting day, several excursions will be offered that explore Moscow (such as a city tour, boat trip along the Moscow-river or Red Square and Kremlin guided tour). The Conference Banquet will be held in the comfortable Korston Hotel banquet Hall at 6 pm.

A number of post(pre)-conference tours are being prepared: a 3-day trip to Saint-Petersburg including a possible visit of VSEGEI with a special exhibition dedicated to the Popigai impact structure; a 2-day tour to Yaroslavl including a visit to the public museum of Russian deep-drilling projects and a visit to the deep-core depository which stores kerns from the famous 5-km-deep drill core of the Puchezh-

Katunki impact crater and the super-deep Kola borehole; a 4-day trip to Ekaterinburg to visit the Europe-Asia boundary, underground Museum at the gold mining with crocoite room, and the fall site of the Chelyabinsk meteorite; and a 3-day trip to the famous ancient city - Kazan with a tour to the Karlinsky impact crater.

We have reserved rooms in multiple hotels, offering a range of price categories and distances from the “Golden Brain” building. Since only one of them is within walking distance of the Academy of Sciences Presidium building, we will offer a 7-day travel pass to all participants of the conference.

Moscow is the capital of Russia, its political, economic, cultural and scientific center. It was founded 8 centuries ago by Prince Yuri Dolgoruky. Historians have accepted the year of 1147 as the start

of Moscow's history. Though Peter the Great moved the capital to St. Petersburg in 1712, Moscow remained the heart of Russia. Now Moscow is one of the largest cities in Europe. Moscow has three international airports (Sheremetyevo, Domodedovo and Vnukovo); express trains, buses and taxi allow reaching the center within one and a half of hour; famous subway system and renovated public transportation are available from 6 am to 1 am.

For specific information please contact the Organizing Committee at [metsoc2018@gmail.com](mailto:metsoc2018@gmail.com).

We are looking forward to welcoming you in Moscow.

Marina Ivanova  
October 2017

## FROM THE TREASURER

This report summarizes the society's finances in Fiscal Year 2017 (FY17), 1 June 2016 to 31 May 2017. The society's finances are healthy and the budget is balanced under our current operations.

### Assets

At the end of FY17, the balance of the Operating Fund was \$287,906 and the portfolio value of the Investment Fund was \$1,158,773. The Investment Fund contains four endowed funds: the General Endowment Fund, the Nier Fund, the Gordon A. McKay Fund, and the TIM (The International Members) Travel Fund. A Reserve Fund is also being maintained within the Investment Fund at a flat value of \$100,000 as decided by council during the March 2013 meeting. At the end of FY17 the approximate distribution of the various funds within the Investment Fund was as follows: General Endowment Fund, 75%; Nier Fund, 6%; Gordon A. McKay Fund, 6%; TIM Travel Fund, 4%; Reserve Fund 9%. These percentages change very little from year to year.

### Operating Fund

FY17 was the seventh year of publishing *MAPS* with Wiley. Our operating budget includes two kinds of income from Wiley: an agreed sum that supports the *MAPS* Editorial Office, as well as royalty income

which is based on Wiley's total *MAPS* revenue. The final royalty amount we received for calendar year 2016 was \$47,137. Some of Wiley's revenue consists of *MAPS* subscriptions, which members pay as part of their membership dues. The abstract payment process has worked much better this year. However this is a reminder that we do need to pay these fees to Wiley so please make sure to pay your abstract fees. Overall, in FY17, the society budget for publication of *MAPS* was very close to breaking even. Our agreement with Wiley is on a stable financial footing. The new contract with Elsevier for *Geochimica et Cosmochimica Acta* went into effect in January of 2016 and has been working well.

The loan of \$40,000 to the Berlin MetSoc meeting returned a substantial profit of over \$10,000. There is an outstanding loan to the Santa Fe MetSoc meeting of \$15,000. The Berkeley MetSoc meeting generated a substantial profit of almost \$29,000, which is reflected in FY17. The Operating Fund budget for FY17 is close to being balanced, neglecting fluctuations due to advance payments to and surpluses from our annual meetings. The budget includes the society's membership to *Elements* magazine. Council decided to raise membership dues for those members receiving print copies of *MAPS*. The new rates are \$130 for regular members and \$65 for student and



retired members. All rates for developing country members remain the same, as do those for members receiving only the electronic version of MAPS.

## Gifts

The Society wants to give special thanks those who have supported our mission and especially our annual meeting over the years. The Barringer Crater Company deserves special mention. The International Meteorite Collectors Association, the Planetary Studies Foundation and the Macovich Collection have also been consistent and generous supporters.

We thank the 197 Society members who generously contributed gifts to the Society in the past fiscal year. The total of gifts received for the Endowment, Nier, and McKay Funds was \$13,440. These contributions helped support workshops, awards, student and professional travel and other activities. Members also donated to the TIM (The International Members) Travel Fund intended to support travel for professional members from low-income countries to attend the Annual Meeting. As the corpus of the Fund is being built, donations will be used directly each year for designated travel support. A total of \$1,800 was donated for this purpose in FY17.

The following members contributed \$100 or more during FY17: C. Agee, E. Anders, A. Bouvier, A. Brearley, S. Brey, H. Busemann, R. Carlson, H. Connolly, T. Fagan, B. French, M. Gaffey, S. Genest, E. Gnos, D. Gotz, M. Grady, E. Grew, Y. Guan, D. Harries, G. Herzog, B. Hofmann, M. Hutson, T. Ireland, M. Ito, J. Jones, R. Jones, R. Kashuba, J. Kashuba, N. Kita, C. Koeberl, C. Kohl, A. Kracher, L. Labenne, D. Laurretta, Y. Liu, L-A. McFadden, H. Melosh, B. Meyer, D. Milton, A. Morlok, H. Nagahara, K. Nagao, B. Narendra, V. Nieer, M. Nolan, E. Olsen, D. Papanastassiou, C. Park, R. Pepin, D. Pitt, J. Plescia, J. Pohl, R. Pugh, R. Reedy, W. Reimold, A. Ruzicka, E. Scott, D. Stoeffler, M. Strait, A. Stuedi, T. Swindle, A. Treiman, C. Velsko, J. Wacker, M. Wadhwa, R. Walker, J. Wasson, E. Young, M. Zolensky

The following members also made donations:  
E. Alexander, C. Arps, M. Bailey, N. Barlow, R. Bartoschewitz, J. Beckett, R. Bild, H. Boettcher, A. Brogioni, D. Brownlee, M. Bukovanska, T. Burbine, P. Buseck, P. Cassen, K. Cervantes de la Cruz, P. Claeys, W. Collins, G. Crozaz, H. Csadek, J. Curchin, J. Delaney, M. Dence, B. Devouard, D. Dickens, P. Dickmann, D. Dickson, D. Dietz, B. Dressler, J. Edmunson, O. Eugster, C. Evans, W. Farrell, J. Filiberto, G. Finiol, L. Flores Palma, J. Friedrich, J. Gilmour, B. Glass, T. Harris, W. Hartmann, L. Hecht, C. Herd, L. Hill, R. Hilts, E. Hoffman, F. Horz, G. Huss, E. Jessberger, B. Jolliff, A. Jull, A. Jurewicz, S-I. Kawakami, A. Kearsley, L. Keller, M. Kelley, T. Kohout, F. Kyte, D. Lange, L. Lebofsky, R. Lewis, J-C. Lorin de la Grandmaison, G. Lugmair, M. Matthews, F. McCubbin, K. McKeegan, H. McLean, S. McLennan, H. McSween, M. Meier, D. Meisel, S. Messenger, R. Mettler, F. Meyer, T. Mikouchi, B. Millar, D. Miller, Y. Miura, M. Miyamoto, E. Murad, T. Nakamura, K. Nakamura-Messenger, J. Nauber, D. Nava, C. Neal, H. Nishimura, L. Nyquist, P. Olver, G. Osinski, U. Ott, J. Otto, M. Ozima, H. Palme, R. Patrick, H. Plotkin, D. Prabhu, A. Pun, D. Record, A. Riches, M. Robson, P. Rochette, D. Ross, A. Rubin, S. Russell, K. Sakamoto, R. Schaudy, A. Schedl, A. Schlazer, R. Schmit, S. Schwenzer, J. Sewell, T. Sharp, J. Shorten, P. Sipiara, R. Smith, R. St. Clair, R. Stroud, M. Tabetah, S. Tachibana, K. Takahashi, L. Taylor, M. Telus, H. Thiel, W. Thompson, M. Tyra, M. Varela, M. Velbel, D. Walker, T. Webb, K. Wimmer, S. Winzer, S. Wolf, K. Yamashita, H. Yurimoto, J. Zipfel

Candace Kohl  
October 2017

## FROM THE ENDOWMENT COMMITTEE

### Project grants during the last 12 months

Endowment Committee members for 2017 have been Drew Barringer (Co-Chair), Gary Huss, Rhian Jones, Wolf Uwe Reimold (Co-Chair), and Allan

Treiman. Paul Warren, who had ably supported the committee for a number of years, had resigned earlier this year. We would like to extend our sincere appreciation for his numerous inputs and efforts. The committee was supported by ex officio members

Candace Kohl (Treasurer), Mike Weisberg (Secretary), Mike Zolensky (President), and from August 2017, Trevor Ireland (President).

The Annual Meeting in Santa Fe was supported with \$4000 for travel grants from the TIM Fund (the travel award fund for scientists from countries with limited financial resources). Again, we are grateful that a considerable part of this investment was offset by donations from members. A further \$6000 from the General Endowment was awarded for travel support of primarily student participants to the Santa Fe meeting. Through these funds and significant other sponsorship, it was possible to support participation from more than 40 student and professional members – the latter particularly from countries with limited resources.

Other support grants from the Endowment were made available for:

- \$1000 for 2 Pellas-Ryder awards;
- \$2,500 for the Special Speaker at the 80<sup>th</sup> Meteoritical Society Meeting in Santa Fe, New Mexico.
- \$2,000 to support a series of short courses in Brazil on impact cratering studies given by Uwe Reimold; week-long courses were presented in Brasilia and Salvador in Brazil, and in Tucumán, Argentina.
- \$6,000 for student travel to the conference/workshop/exhibition entitled “Meteorites China 2017”, held at Duke Kunshan University, Kunshan, China, in September 2017.
- \$5,000 to support the Workshop on Shock Metamorphism in Perth, Australia, June 2017.
- \$2,100 to support student travel to the 1<sup>st</sup> British Planetary Science Congress in Scotland, December 2017.

- \$2,500 to the Meteoritics and Planetary Science session of the 3MA International Colloquium (Magmatism, Metamorphism, and Associated Mineralization), for student travel, held in Meknès, Morocco, April 2017.
- \$1,300 for student travel to attend the Extraterrestrial Materials: UK Research Meeting at the University of Manchester, Nov. 2016.
- \$3,000 for student travel to attend the meeting "Chondrules as Astrophysical Objects" in Vancouver, Canada, May 2017.

The website section regarding the Endowment and Grant process will be updated shortly, perhaps already by the time you read this. This will accurately reflect our goals and procedures. Also an important procedural change will be introduced. We will begin considering grant requests only twice a year, with deadlines of January 15 and June 15. Decisions will be reached at the Council meeting in March and at the Annual Meeting in mid-year. Requests for Endowment Fund grants should be planned so that they can be considered in this schedule, allowing for a phase of at least three months for a Council decision - before funding is needed.

Members of The Meteoritical Society are again, cordially invited by the Committee to make suggestions on how the Endowment Fund could be applied to further the interest of our members, especially student members, and to promote our scientific interests, including outreach opportunities.

Wolf Uwe Reimold  
October 2017

## PUBLICATIONS REPORTS

### *Meteoritics and Planetary Sciences (MAPS)*

*From the Editor, A.J.T. Jull*

I would like to summarize briefly the status of our journal, Meteoritics and Planetary Science. The trends continue to be positive and submission rates continue to be good. In the last year, we received 241 new (original) papers, an increase of 5.2%, as well as 222 revisions of other papers. We published 180 papers in the last year. For the 2-year period from October 2015

to 2017, the “accept” ratio was 78.4% (280 out of 357 papers). The acceptance ratio has remained quite constant over several years. The impact factor was 2.391 for the last years (2015-2016), close to the long-term mean, which reflects the average over the last 2 years in IF reports (2014-2015). The 2-year value for 2014-2015 was a little higher at 2.819.

On the production side, issues are appearing on time and with few delays. Back issues of the journal are available online at the Wiley website. Members

can access this through their member identification, if they do not have full university library access. The [meteoriticalsociety.org](http://meteoriticalsociety.org) website now offers access to MAPS through a direct link – the user needs their email and password, which is their subscriber number. Authors are now expected to include their ORCID identification when submitting a paper, this is easily set up if you don't already know it. This allows publications indexing services to uniquely identify the authors.

We have several special issues in preparation: Studies on impacts, shock and cratering studies as well as one on “Dawn at Ceres”. We have revised the procedure for approving special issues. There is now a small subcommittee of the editorial board to review “special issue” proposals. A successful proposal should list the proposed guest editors, preferably including at least one current member of the editorial board, a list of proposed papers and details of the workshop or conference, if one is included.

Last year, the publisher approached the Society with the proposal that Meteoritics and Planetary Science should eventually become completely online. After a survey of members, it was decided it was premature to move in this direction at this time.

A. J. Timothy Jull  
Editor, Meteoritics & Planetary Science  
October 2017

### ***Geochimica et Cosmochimica Acta (GCA)***

*From the Editor, Marc Norman*

GCA continues to be well supported by the geochemical and cosmochemical community with 1017 new submissions for calendar year 2016 and 810 new manuscripts received so far in 2017 as of 16 Oct. At least 530 manuscripts are scheduled for publication in 2017.

Two Special Issues of GCA were published in 2017. “Isotopic studies of planetary and nuclear materials: a scientific tribute to Ian Douglass Hutcheon” was published as Volume 201 (15 March 2017), and “Highly Siderophile Element Constraints on Earth and Planetary Processes” was published as Volume 216 (1 November 2017). Our sincere thanks go to all of the authors and reviewers who contributed to this issue, along with a special acknowledgment to the

Associate and Guest Editors of these issues for their hard work. In addition, a Special Issue on “Astrophysical Implications of Extraterrestrial Materials in honor of Ernst Zinner” is in the final stages of production.

GCA's 2-year impact factor is now 4.61, up from 4.32 last year. Journal Management has now moved to Exeter, UK, and is in the capable hands of Lisa Lovheim. Our publisher's representative at Elsevier is Kate Hibbert, an isotope geochemist with a Ph.D. from the University of Bristol.

GCA encourages authors to consider diversity when making their Reviewer suggestions in order to help create an inclusive pool of potential reviewers. Therefore, we encourage everyone to recommend reviewers that represent the community in gender, career stages, and in geographies and ethnic backgrounds.

Dr. Marc Norman, Executive Editor  
October 2017

### ***Elements***

*Elements* is a bimonthly publication with an international circulation of ~15,000 focusing on subjects and news of broad interest in the geological sciences. The Meteoritical Society publishes Society news in 1-2 pages per issue, and is responsible for a feature article every other issue, entitled “CosmoElements” that highlights hot topics in the fields of Meteoritics and Cosmochemistry. Most recently, these have discussed carbonaceous chondrite impact melts (Lunning and Corrigan, February 2017), the OSIRIS-REX mission (Lauretta, June 2017) and identifying terrestrial impact craters (Ferriere, October 2017). Upcoming issues with specific interest to the Meteoritics community include the Comets issue, to be published in 2018. Under an agreement between *Elements* magazine and the Meteoritical Society, members receive printed copies of *Elements* as part of their membership package and have electronic access to all articles published by *Elements*, including past issues. The editor for the Meteoritical Society's contributions to *Elements* is Cari Corrigan (Smithsonian Institution). Please feel free to contact her with ideas for entire issues, or *CosmoElements*.

Cari Corrigan  
October 2017

## FROM THE NOMENCLATURE COMMITTEE

Here is an overview of NomCom activities since March 2016.

### Chair, Meteoritical Bulletin Editor and Deputy Assistant Editor, Database Editor

Laurence Garvie is the Chair of the Nomenclature Committee and assumed the position at the March 2016 Lunar Planetary Science Conference. Audrey Bouvier is the Meteoritical Bulletin Editor and will continue in this position till March 2018. She is supported by deputy assistant editor Jérôme Gattacceca, who will assume the position of Editor when Audrey Bouvier steps down. The position of assistant editor remains to be filled. Jeff Grossman is the Meteoritical Bulletin Database editor.

### Dense Collection Area (DCA) Subcommittee

This subcommittee consists of Knut Metzler (DCA Chair), Jeff Grossman, Jérôme Gattacceca, and Hasnaa Chennaoui-Aoudjehane. The purpose of the subcommittee is to bring forward to the NomCom, recommendations on dense collection areas throughout the world and other Solar System planets.

### NomCom Committee

The Committee consists of nine members: Laurence Garvie, Mutsumi Komatsu, Knut Metzler, Jérôme Gattacceca, Tasha Dunn, Emma Bullock, Vinciane Debaille, Hasnaa Chennaoui, and Francis McCubbin, and ex-officio members: Audrey Bouvier (MetBull Editor); Jeff Grossman (Database Editor); and, Meenakshi Wadhwa (MetSoc Vice President).

### Meteoritical Bulletin Database (MBDB)

The database is a record of all recognized and classified meteorites as accepted by the Committee for Meteorite Nomenclature (NomCom) of the Meteoritical Society. In addition, the database lists all DCAs (including their KML coordinates for direct viewing in GoogleEarth), and keeps a list of all NomCom-approved Collections and Repositories.

**Meteorites:** The MBDB database (<http://www.lpi.usra.edu/meteor/>), which is updated regularly by the Database editor Jeff Grossman, currently (as of 3<sup>rd</sup> October, 2017) lists 56,993 valid meteorite names, an increase of 2113 meteorites since last year's report.

Within the last year, the database added 12 new meteorite falls (listed as confirmed or probable), including **Aiquile** (Bolivia), **Banma** (China), **Broek in Waterland** (Netherlands), **Degtevo** (Russia), **Dingle Bell** (Australia), **Dishchii'bikoh Ts'isqosé Tsee** (Arizona), **Hradec Králové** (Czech Republic), **Kalugalatenna** (Sri Lanka), **Kamargaon** (India), **Oudiyat Sbaa** (Western Sahara/Morocco), **Serra Pelada** (Brazil), and **Tres Irmaos** (Brazil).

Data from the database continues to show the remarkable increase in recognized and classified martian and lunar meteorites. In the last year, 49 new lunar meteorites were approved by the NomCom, for a total mass of >46 kg. Nineteen martian meteorites were approved for a total mass near 10 kg.

During the last year, the database lists 1482 new non-Antarctic meteorite classifications, and 975 from Antarctica. Of the non-Antarctic meteorites, 667 have the geographically non-specific locality name of Northwest Africa (NWA). Chile is growing to be a meteorite hotspot with 211 new meteorite classifications, up from the previous year's 132 approved classifications. Oman continues to produce large numbers of meteorites with 129 new meteorite classifications. A total of 186 new meteorites were approved from Iran.

**Dense Collection Areas:** Since March 2017, 17 new DCAs have been approved, two of which are on Mars. The martian DCAs are Aeolis Mons and Aeolis Palus. These DCAs are warranted given the numbers of meteorites discovered by the Curiosity Mars rover. The DCA names derive from the IAU-defined geomorphological units. Currently the Aeolis Mons DCA contains two meteorites, and Aeolis Palus three. The other approved DCA and country of origin are as follows: **Chile** – Coya Sur, Calate; **China** – Yu Wei Liang; **Egypt** – Birkat Aghurmi; **Iran** – Rafsanjan,

Lut-e-Zangi Ahmad; **Libya** – Gheriat, Maghidet; **Mauritania** – Tichit; **Morocco** – Talsint, Tisserdmine; **Saudi Arabia** – Ad-Dammam; and, **Western Sahara/Morocco** – Tichiya, As Saquia Al Hamra, Awsserd, and Talhat Lihoudi.

**Type Specimen Repositories:** The NomCom currently recognizes 84 institutions as repositories for meteorite type specimens. Newly approved type specimen repositories are as follows: V.S. Sobolev Institute of Geology and Mineralogy, Russia (SIGM); Mineral Museum of the University of Bonn, Germany (UBonn); Institut für Geochemie und Petrologie ETH Zürich, Switzerland (ETH); and, Institut Universitaire Européen de la Mer, Université de Bretagne Occidentale, France (IUEM).

### **Meteoritical Bulletin 103, 104, 105, and 106**

MetBull 103, 104 and 105 were published in 2017 in Meteoritics and Planetary Science. The cover page for each is published in Meteoritics and Planetary Science. Online supplementary information for each

MetBull is available on Wiley servers. It includes a document with full reports, changes of classification, new repositories, and dense collection areas, as well as corresponding supplementary tables.

MetBull 105 contains 2666 meteorites including 12 falls (Aouinet Legraa, Moshampa, Banma, Buritizal, Ejby, Sariçiçek, Stubenberg, Mount Blanco, Murrili, Osceola, Sidi Ali Ou Azza, and Kamargaon), with 2245 Ordinary chondrites, 142 HED achondrites, 116 Carbonaceous chondrites, 20 Ureilites, 37 Lunar meteorites, 20 Enstatite chondrites, 20 Iron meteorites, 10 Primitive achondrites, 9 Mesosiderites, 19 Martian meteorites, 12 Rumuruti chondrites, 5 Ungrouped achondrites, 1 Enstatite achondrite, 5 Angrites, 1 Relict meteorite, and 4 Pallasites.

As of 4<sup>th</sup> October, 2017, there are 1552 new meteorite classifications in the database from MB 106.

Laurence Garvie, Chair  
October 2017

## **FROM THE MEMBERSHIP COMMITTEE**

The Society's membership continues to show strong numbers, exceeding 1000 members this year, a number first reached in 2011 that we continue to maintain. The most up-to-date membership count is 1022 – the exact number that we reported this time last year, so although our membership is still strong, it is also not growing. A particular area that the Membership Committee hopes to see expanded is our student membership numbers. We are pleased to announce an exciting new initiative that took place for the first time at this summer's Annual Meeting in Santa Fe. A free lunchtime Meet & Greet brought together students with senior scientists from the planetary community. This is a great professional development opportunity for students, providing insight in what to expect from a career in meteoritics and helping them to establish contacts with senior scientists, forge collaboration opportunities and possibly even secure internships. We hope to continue Student Meet & Greet events at future meetings.

The Membership Committee would like to take the opportunity to welcome new members, including 46 members, 38 students, 2 developing country and 11

retired members. The Membership Committee would also like to strongly encourage members to nominate deserving people in the Society who have promoted research and education in meteoritics & planetary science, by means other than conducting scientific research.

### **New Members**

Welcome to new non-student members: Kenneth Regelman, Jian Haiyan, Pierre Haenecour, Christopher Snead, Michael Poelchau, Dinesh Prabhu, Steven Ehlert, Douglas Milham, Linda Fries, Glen Akridge, Zhaofu Lin, Paolo Conte, Maria Peto, Michal Tomecek, Brandon Johnson, Bernard Hoefnagels, Taylor Trott, Thomas Schuermann, Jeremy Boyce, Christopher Charles, Jennifer Wadsworth, Tsuneo Horie, Yu Bin, Paul Waring, Jerry Wagstaff, David Bowen, Natasja Swartz, Jing Yang, Arya Udry, Zachary Sharp, Tabb Prissel, Andrey Yakovenko, Olaf Borkiewicz, Elizabeth Silber, Subrata Chakraborty, Bob Falls, Carol Falls, Carmel Barbara, Mary Bell, Corlis Sio, Karen Vaughn, Philipp Kuhne, Candace

Hoskin, Robina Shaheen, James Rowe, and Alexander Sehlke.

Joining the Society this year is a healthy compliment of 38 students – down slightly from 54 at this same time last year. New student members include: Leticia De Marchi, Richard Windmill, Haiyang Wang, Jack Piercy, Anthony Gargano, Sarah Roberts, Nicola Mari, Helena Bates, Runlian Pang, Weifan Xing, Daniel Sheikh, Thomas Lawton, Ebberly MacLagan, Jessica Johnson, Kaoru Mogi, Takashi Yoshizaki, Geoffrey Bonning, Mingming Zhang, Michael Bojazi, Morgan Cox, Liane Loiselle, Aaron Wilson, Jennika Greer, Rachel Rahib, Krysten Villalon, Michelle Salem, Paul Scholar, Diliara Kuzina, Lionel Vacher, Daniela Weimer, Soumya Ray, Tany Kizovski, Graham Edwards, Christopher Haberle, Eniko Toth, Imene Kerraouch, Mya Habermann, Yunhua Wu, and Shisseh Taha.

We also welcome developing country members, Mrigank Dwivedi and Andreii Gorin, and retired members Dieter Heymann, Bruce Millar, Cullen Demko, Harry MacNeil, Victoriano Cerda, John Michels, Howard Dashke, Marie Paul Bassez, Jean-Marie Mazaleyrat, Claude Danglot, and Mark Boslough.

### **Service Award Nominations**

The Membership Committee would like to implore members of the Society to submit nominations

for the Service Award. This Award was established in 2005 to honor those members who have advanced the goals of the Society in ways not including scientific research which could include education and public outreach, service to the broader scientific community, acquisition, as well as classification and curation of new samples for research. In the past we have awarded deserving recipients including Jeff Grossman, Roy Clarke Jr, Ralph Harvey, Gisela Poesges, Cecilia Satterwhite and most recently Linda Martel. Winners are granted lifetime membership to the Meteoritical Society. Nomination packages for the 2018 Service Award will be accepted up to January 30<sup>th</sup>, 2018, which should include a biographical sketch of the candidate and additional substantive information, as well as additional secondary letters to strengthen the nomination. Nominations should be sent by email to [metsec@gmail.com](mailto:metsec@gmail.com). We hope to hear from you soon!

Erin Walton, Chair (Membership Committee) with the assistance of J. Alex Speer

On behalf of The Membership Committee: Gretchen Benedix, Ludovic Ferrière, Tomas Kohout, Rhiannon Mayne, Matthias Meier, and Devin Schrader

September 2017

## **AWARDS AND HONORS**

### **Leonard Medal for 2018 to Alexander (Sasha) E. Krot**

The Meteoritical Society recognizes Sasha Krot with its 2018 Leonard Medal in recognition of his fundamental contributions to understanding the role oxygen isotopes in early Solar System processes and aqueous alteration processes on asteroids.

### **Nier Prize for 2018 to Lydia Hallis**

The Meteoritical Society recognizes Lydia Hallis with its 2018 Nier Prize for her contributions to the understanding of the origin of volatiles in planets.

The recipients of the Leonard Medal and the Nier Prize were selected by the Leonard Medal

Committee: Richard Binzel, Phil Bland, Roger Hewins, Sara Russell (Chair) and Maria Schönbachler,

### **Barringer Medal and Award for 2018 to Thomas Kenkmann**

The 2018 Barringer Medal is awarded to Prof. Thomas Kenkmann for his fundamental contributions to our understanding of the structure mechanics and tectonics of rock displacement associated with the formation of hypervelocity impact craters.

The Barringer Medal Committee selected the recipient of this award. The committee members were Alvaro Crosta, Alex Deutsch (Chair), Akiko Nakamura, Michael Poelchau, and John Spray.

### **Service Award for 2018 to Linda Martel**

The Service Award for 2018 is awarded to Linda Martel, for advancing of the goals of The Society and the far-reaching impact of her work. Her contribution to the Society's goals is accomplished through the *Planetary Science Research Discoveries* online magazine.

The Service Award recipient for 2018 was selected by the Membership Committee: Gretchin Benedix, Ludovic Ferriere, Tomas Kohout, Rhiannon Mayne, Matthias Meier, Devin Schrader and Erin Walton (Chair).

### **McKay Award for 2017 to Jennika Greer**

The 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. This year's award is given to Jennika Greer (University of Chicago) for her presentation "Atom Probe Tomography of Lunar Regolith Ilmenite Grain Surfaces".

### **Wiley Awards for 2017**

John Wiley and Sons, the publisher of our journal, *Meteoritics and Planetary Science*, sponsored four awards of \$500 each for outstanding presentations by students at our 80th Annual meeting. The 2017 winners are:

Daniel R. Dunlap (Arizona State University) for the presentation "<sup>26</sup>Al-<sup>26</sup>Mg Systematics of the Ungrouped Achondrite Northwest Africa 11119: Timing of Extraterrestrial Silica-Rich Magmatism"

Maximilien J. Verdier (Muséum National d'Histoire Naturelle, Paris) for the presentation "Temperature Precipitation of Ca-Carbonates in CM Chondrites Inferred from In-Situ Oxygen Isotopes"

Jonas Pape (University of Bern) for the presentation "In-Situ <sup>26</sup>Al-<sup>26</sup>Mg Dating of Single Chondrules by Secondary Ion Mass Spectrometry".

Lionel G. Vacher (Université de Lorraine, France) for the presentation "Petrographic and Isotopic C and O Survey of the Earliest Stages of Aqueous Alteration of CM Chondrites".

The recipients of the McKay Award and the Wiley Awards for 2017 were selected by Tasha Dunn (Chair), Karen Ziegler, (Co-chair) and numerous judges who volunteered their time.

### **Pellas-Ryder Award for 2017**

The Paul Pellas-Graham Ryder Award for the Best Student Paper in the Planetary Sciences for 2017 has been jointly awarded to Gerrit Budde, a PhD student at the Wilhelms-Universität Münster Germany and James Keane, a PhD student at the University of Arizona. Gerrit receives the award in recognition of the paper "Tungsten isotopic constraints on the age and origin of chondrules", published in the Proceedings of the National Academy of Sciences in 2016 and James is recognized for his paper "Reorientation and faulting of Pluto due to volatile loading within Sputnik Planitia" published in Nature in 2016.

The selections of the Pellas-Ryder awards for 2017 were made, as always, by a joint committee of the Meteoritical Society (MS) and the Geological Society of America (GSA). Its members for this award year were John Friedrich (MS), Katherine Joy (Chair, MS), Sharon Wilson Purdy (GSA), Randy Korotev (MS), Emily Martin (GSA), and Brad Thomson (GSA).

## **CALL FOR NOMINATIONS: AWARDS AND FELLOWS**

The Society depends on its members to nominate deserving candidates for its awards and Fellows. Your participation is needed and important. The procedures for making a nomination are summarized here and can also be found on our website, [http://meteoriticalsociety.org/?page\\_id=66](http://meteoriticalsociety.org/?page_id=66).

Nominations for Meteoritical Society awards should be sent, preferably by email with electronic attachments, to the appropriate committee chair (listed

at the end of each paragraph) **with a copy to the secretary, Mike Weisberg (MetSocSec@gmail.com).**

### **Leonard Medal and Nier Prize -- Deadline January 15, 2018**

The Leonard Medal honors outstanding contributions to the science of meteoritics and closely allied fields. It was established in 1962 to honor the

first President of the Society, Frederick C. Leonard. Nominations for the Leonard Medal should include:

a formal letter of nomination,

a biographical sketch of the candidate,

a list of publications covering the work to be considered for the award,

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,

one seconding letter in support of the nomination (additional letters are encouraged).

The Nier Prize recognizes outstanding research in meteoritics and closely allied fields by young scientists. The award was established in 1995 to honor the memory of Alfred O. C. Nier, and is supported by an endowment started by Mrs. Ardis H. Nier his wife.

The recipient will be a scientist who has not yet reached his or her thirty-fifth birthday at the end of the calendar year in which he or she is selected by the Council, or whose doctorate was awarded no more than seven calendar years before the year of selection by the Council.

Nominations for the Nier prize should include the items listed above for the Leonard Medal. They should also include the candidate's date of birth and the date on which the doctorate was awarded. 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.

The committee chair for these awards is Sara Russell (sara.russell@nhm.ac.uk).

### **Barringer Medal -- Deadline January 15, 2018**

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 were established in 1982 to honor the memory of D. Moreau Barringer Sr. and his son D. Moreau Barringer Jr. and are sponsored by the Barringer Crater Company. Nominating letters should include:

biographical sketch of the candidate,

summary and evaluation of the accomplishments of the candidate and the importance of the candidate's work,

list of publications covering the work to be considered for the award, and

one or more seconding letters.

The committee chair is Alex Deutsch (deutschca@uni-muenster.de).

### **Service Award -- Deadline January 31, 2018**

This 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. Examples of activities that could be honored by the award include, but are not limited to, education and public outreach, service to the Society and the broader scientific community, and acquisition, classification and curation of new samples for research.

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.

The chair of the membership committee, which administers this award, is Erin Walton (ewalton@ualberta.ca).

### **Pellas-Ryder Award -- Deadline January 31, 2018**

This award, which is jointly sponsored by the Meteoritical Society and the Planetary Division of Geological Society of America, is for undergraduate and graduate students who are first author of a planetary science paper published in a peer-reviewed scientific journal. Any first author of a paper published on a topic listed on the cover of *MAPS* who was a student when the paper was submitted is eligible for consideration for this award. Nominations should include

the full citation,

brief description of the paper's significance,

a letter from the department head verifying that the first author was a registered student when the paper was submitted, and



a letter from the student's advisor describing what portion of the work was done by the student.

Please send nominations to Katherine Joy (katherine.joy@manchester.ac.uk) and the Secretary (MetSocSec@gmail.com).

### **Nomination of Fellows – Deadline January 15, 2018**

Members who have distinguished themselves in meteoritics or in closely allied fields may be elected Fellows by the Council. No more than 1% of the members can be elected in even-numbered years. An alphabetical list of Fellows of the Society may be

found on our web site (click Awards and then Fellows in the left hand menu).

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 the Secretary, Mike Weisberg (MetSocSec@gmail.com).

## **FROM THE SECRETARY**

### **Election for 2019**

A new council will take office in January 2019, with Meenakshi Wadhwa as President and Trevor Ireland as Past President. The Nominating Committee (Nancy Chabot, Barbara Cohen, Guy Libourel, Kevin McKeegan, Shogo Tachibana and Monica Grady (chair)) has prepared a slate of candidates. To date, the Council has affirmed that the new slate was selected in accordance with the Society's Constitution and Bylaws. The Vice Presidential nominee is Brigitte Zanda (Muséum National d'Histoire Naturelle, Paris). The Secretary nominee is Munir Humayun (Florida State University) and the treasurer nominee is Karen Ziegler (University New Mexico). Nominations for Council are Neyda Abreu (Pennsylvania State University), Chris Herd (University of Alberta) and, Takashi Mikouchi (University of Tokyo). Councilors slated to serve a second term are Cari Corrigan (Smithsonian Institution), Christine Floss (Washington University), Pierre Rochette (Centre Europeen de Recherche et d'Enseignement des Geosciences de l'Environnement, France), Mario Trieloff (Universität Heidelberg, Germany) and Maria Eugenia Varela (Instituto de Ciencias Astronómicas, de la Tierra y del Espacio, Argentina).

According to the constitution of The Society, nominations for other candidates require a petition signed by at least 3% of the society's members (~30 at this writing) and should be submitted to the Secretary by February 15, 2018. If no candidates are nominated other than those listed above, the Secretary will declare the candidates listed elected by affirmation.

### *Statement from the Vice Presidential candidate*

Brigitte Zanda  
Muséum National d'Histoire Naturelle, Paris

I have been a member of The Meteoritical Society since the early nineteen-eighties, was elected a Fellow in 2004 and have served it in several capacities. Were I to be elected Vice-President, I would certainly welcome the honor, because of the great fondness I have always had for our Society. It is just the right size: one may know most of the other members yet not all of them, and the meetings are varied and interesting but not overwhelming. Above all, I love the variety of people that make up the Society: scientists and amateurs, students and old-timers, cosmochemists, mineralogists, astrophysicists, curators... Our community is one for which stories are important and this is reflected in our Journal, which publishes stories of meteorite finds as well as those of people who made the Society, along with more classical scientific papers. We are involved in fieldwork (in Antarctica in particular) as well as in space missions. This makes our common experience incredibly rich and varied.

I have been a meteoriticist all my scientific life, starting with a PhD on the isotopic effects of Galactic Cosmic Ray irradiation on iron meteorites. When I joined the Muséum national d'Histoire naturelle (MNHN) in 1989, the "Équipe Météorites" was led by Paul Pellas, a colorful character many of us remember, who had been the first non-US President of the Society back in 1977-1978, right after Ursula Marvin was the first woman. Paul had long been interested in fission tracks in meteoritic phosphates and along with his

group and Kurt Marti had recently identified a new component of Xe (FVM-Xe) and several types of minute inclusions in the metal grains of chondrites. As I knew I was destined to become in time the curator of meteorites at the MNHN, I wished to work closer to samples, and chose to follow up on these discoveries and study chondritic metal along with the rest of the group. I soon realized that the logic in inclusion distribution (size and relative abundances) was related to the chondrule environment of the metal grains, and took advantage of the arrival of Roger Hewins for a sabbatical year at MNHN (soon to become my husband) to explore this link, which led to my working along with Roger on chondritic metal, chondrules and chondrites for the many years to come.

As Roger's group was conducting experiments on chondrule textures and on volatile loss in chondrule formation, I worked on the genesis of chondritic metal with his then student Harold Connolly, and also performed observations of sulfur distribution with respect to chondrules in primitive chondrites. This work involved a lot of reflected light microscopy, which I really enjoyed, and still feel is an essential part of early sample characterization. I was also involved in trying to gain a better understanding of the chondritic assemblage, starting with the study of the relationship between the component mix of a chondrite and its oxygen isotopic signature. I later got involved in trying to understand whether or not chondrules and matrices are complementary to one another in terms of their chemical compositions, which would indicate that they are genetically related. Although I started a Believer, working with Phil Bland on the issue, I have since been convinced that the body of relevant data that we presently have access to (chondrule, matrix and bulk chemical compositions) is insufficient to unambiguously support such a paradigm-shifting claim. To improve data quality, with Hugues Leroux, Corentin Le Guillou, our student Pierre-Marie Zanetta and Éric Lewin, we are now working at designing a method to very precisely and accurately analyze fine-grained matrices in primitive chondrites.

I was for 13 years the curator in charge of the MNHN meteorite collection. This gave me the opportunity to handle a large variety of samples and interact with many distinguished colleagues. Eventually, this also led to new scientific interests. Meteorite collector and dealer Luc Labenne regularly brought in new and exceptional samples, among which

one from the recently discovered Martian breccia NWA 7034 / NWA 7533 / ..., on which I was privileged to work with Munir Humayun, Roger, Jean-Pierre Lorand and many others, and thus study events which took place 4.4 and 1.4 billion years ago at the surface of Mars.

In the 19th Century, 45 meteorites were seen to fall and recovered in France, among which no less than the 2 largest of the 5 observed CI falls and several other rare types. But in the 20th Century, only 9 meteorite falls were recovered in France, presumably because of the changes in lifestyle. This indicates that many valuable samples must fall each year in France and all over the world, which are not recovered. Along with François Colas, Sylvain Bouley, and other members of the *FRIPON* team, we established a camera network, which at the moment comprises 85 cameras in France and is still growing. This network aims to watch incoming bolides and reconstitute their trajectories. We hope to find our first meteorite soon and, in the long run, it should help us better understand the connections between meteorites and asteroids. *FRIPON* is also at the core of a large citizen science / outreach project named *Vigie-Ciel* (literally "sky watch"), soon to be launched. Its aim is to inform French citizens about the scientific value of meteorites, train them to identify them, and have them participate in their search and recovery. I was the scientific initiator of that project because I have always been deeply committed to public outreach and education. I do believe that The Meteoritical Society has an important role to play in promoting meteorite recovery in all countries in the world and inspire in citizens – especially the young ones – interest in science in general and Meteoritics in particular.

Because science is not usually performed in isolation, I have named here several of the scientists with whom I have been enjoying fruitful collaborations, most of them members of the Meteoritical Society. Our discipline is at the crossroads of many others, and The Society, which is representative of this variety of disciplines and people, has always fostered scientific development. Roger was the Treasurer when I first met him, and from him I caught the virus of wanting to serve The Society, in which I subsequently held various offices: Counselor, member of the Nomenclature Committee, of the Nominating Committee, of the MAPS Publication Committee and of the Joint Publication Committee. This, I feel, gives me quite a good understanding of

the internal functioning of our Society and would be a good preparation were I to hold the Vice-President office for which it is an honor to be considered.

*Secretary candidate - brief biography*

Munir Humayun  
Florida State University, Tallahassee  
Elemental and isotopic cosmochemistry

Munir Humayun is a professor in geochemistry at Florida State University. He is known for his research on microanalysis of meteorites by laser ablation ICP-MS and for chemical and isotopic studies of meteorites, lunar samples, and the Genesis mission. He has served as chair of the Joint Publications Committee (MetSoc and Geochemical Society), and is a member of the Returned Sample Science Board for the Mars-2020 mission and an associate editor of *Geochimica et Cosmochimica Acta*.

*Treasurer candidate - brief biography*

Karen Ziegler  
Institute of Meteoritics, University of New Mexico,  
Albuquerque

Karen Ziegler is a stable isotope geo- and cosmochemist focusing on the oxygen isotope systematics of meteorites. Her research centers around the formation and evolution of the early solar system and planet formation, and also includes the investigation and identification of aqueous and thermal processes that affect extraterrestrial rocks on their parent body and/or on Earth.

*Nominees for Council - brief biographies*

*First term Councilors*

Chris Herd  
University of Alberta

Christopher (Chris) Herd is a Professor in the Department of Earth and Atmospheric Sciences, University of Alberta. His research focuses on the mineralogy, petrology, and geochemistry of primitive, organic-rich bodies that preserve a record of the early stages of Solar System formation, and Mars as an example of a terrestrial planet with a history distinct from that of the Earth. He curates the University of Alberta Meteorite Collection, the largest University-based collection in Canada; the collection has grown over 30% since 2004 as a result of his work, including through meteorite classification. The collection is

home to the pristine, still-frozen specimens of the Tagish Lake meteorite and the world's first cold curation facility. He served as Chair of the Nomenclature Committee of the Meteoritical Society between 2010 and 2015, as was the local organizing committee Chair for the 2013 Meteoritical Society Meeting in Edmonton.

Neyda Abreu  
Penn State - DuBois  
Carbonaceous chondrites mineralogy and petrology

Neyda Abreu is an associate professor in Earth Sciences. Her research focuses on the mineralogical and compositional characteristics of pristine carbonaceous chondrites and how these features are affected by aqueous alteration, shock, and thermal metamorphism. This work uses various electron beam techniques. Abreu has been part of the Meteorite Working Group.

Takashi Mikouchi  
University of Tokyo  
Mineralogy and crystallography of planetary materials

Takashi Mikouchi is an associate professor at the Department of Earth and Planetary Science, University of Tokyo. His research focuses on mineralogy and crystallography of diverse meteorite groups using electron and synchrotron radiation X-ray beam techniques to understand their igneous and shock histories. He has been involved in the analysis of Stardust and Hayabusa samples. He chaired the last MetSoc Nominating Committee and has been a member of the Nomenclature Committee and the Publications Committee of the Society.

*Second Term Councilors*

Catherine Corrigan  
Smithsonian Institution, National Museum of Natural History  
Petrology and geochemistry of chondrites and martian meteorites

Catherine (Cari) Corrigan is a Geologist and the Curator of Antarctic Meteorites in the Division of Meteorites, Department of Mineral Sciences at the Smithsonian Institution's National Museum of Natural History, in Washington DC. In addition to classifying and curating the U.S. Antarctic Meteorite Collection, with standing service on the Meteorite Working Group, she is the Meteoritical Society's representative on the Executive Committee for *Elements Magazine*, and the

Editor for both the Society's news page and the CosmoElements feature in Elements. Her research focuses on the geochemistry of martian meteorites, impact melts in ordinary chondrites. She has also worked on the Opportunity Rover PanCam, team and on iron meteorites, lunar meteorites and terrestrial impact rocks.

Christine Floss

Washington University in St. Louis

Studies of presolar grains, Stardust mission to comet Wild 2

Christine Floss is a research professor in the Physics Department at Washington University in St. Louis. Her research focuses on using the diversity of extraterrestrial material available for laboratory study (meteorites, cosmic dust) to better understand the origin and evolution of the early solar nebula. Particular areas of interest include characterization of circumstellar silicate grains to understand the conditions of formation in their stellar sources, and analytical studies of samples returned by NASA's Stardust mission to comet 81P/Wild 2.

Pierre Rochette

Aix-Marseille University Meteorites

Micrometeorites, impact glasses and magnetic properties.

Pierre Rochette is a professor in the Earth Science Department (CEREGE CNRS associated laboratory) of Aix-Marseille University. His research focus on meteorites, micrometeorites, impact glasses, using in particular magnetic properties. He also works on the geophysics of impact craters and in desert meteorite searches.

Mario Trieloff

Heidelberg University

Isotope chronology of meteorites and impact structures

Mario Trieloff is professor for cosmochemistry in the Earth Sciences at Heidelberg University. His research encompasses the chronology of meteorites and impact structures, noble gas isotopes in cosmo- and geochemistry, the thermal evolution of small bodies, extraterrestrial dust, and general aspects of solar system formation.

He has served as chair for the Pellas-Ryder Committee of the Meteoritical Society.

María Eugenia Varela

Institute of Astronomy, Earth and Space Science (ICATE: Instituto de Ciencias Astronómicas, de la

Tierra y del Espacio)

Petrology and geochemistry of meteorites

María Eugenia Varela is a researcher at CONICET and Deputy Director of ICATE, San Juan, Argentina. Her research is focused on the origin and formation of chondrules and glasses (glass inclusions and mesostasis) in chondritic and achondritic meteorites by combining mineralogy, petrology and chemistry to understand the role of liquids and the fractionation processes in the solar nebula.

### **Additional Notes**

In March, The Society's Council discussed whether there is a need for a live meeting in Houston at the Lunar and Planetary Science Conference, as historically practiced, or if the Fall meeting could be done electronically. Low attendance of committee chairs at LPSC and repetition of some committee reports suggest one live meeting and one online meeting should be sufficient to carry out Society business. It was proposed that The Society would trial an online meeting in Fall and one live meeting of the Society at the Annual Meeting.

The Newsletter provides a summary of The Society's activities for the year. However, I urge members to visit The Society website periodically, throughout the year. It is continually being updated with new features, news and announcements (both good and sad), including memorials to prominent society members that have passed away. Most recently we posted memorials for Larry Taylor, Gerald Rowland who was secretary of The Society 1958-1966 and Fara Lindsay. Additionally, the website provides news on awards and member activities, outreach, information on committees and guidelines on applying for grants to the endowment committee. We are currently updating the endowment *Gift and Grants* section of the website.

### **Nominations for Awards and Fellows**

Please nominate deserving candidates for Awards or to become Fellows. Council members are not allowed to nominate (according to the Bylaws).

### **Future Meetings of the Meteoritical Society**

We are seeking proposals for the 2022 Annual Meeting. Please contact me (MetSocSec@gmail.com) if you are interested in hosting the meeting.

Michael K. Weisberg  
October 2017

