

<http://meteoriticalsociety.org>**SOCIETY STUDENT AWARD WINNERS**

The GORDON MCKAY AWARD is given each year to the student who gives the best oral presentation at the annual meeting of the society. The award honors the memory of Gordon A. McKay and is supported by the McKay Fund, which was established in 2008 as a part of the Meteoritical Society's endowment. The McKay Award for the 84th Annual Meeting of the Meteoritical Society in Los Angeles goes to *Zoe Wilbur* (University of Arizona, USA) for the talk entitled "Unraveling the volatile story of reduced meteorites through djerfisherite". The award comes with a prize of US \$1,000 and a certificate.

The WILEY-BLACKWELL AWARD is presented for outstanding presentations by students at the annual meeting of the society. Wiley-Blackwell are the publishers of *Meteoritics and Planetary Science* and, for the 84th Annual Meeting in Los Angeles, they sponsored five awards of US \$500 each. The winners for 2023 include *Sophie Benaroya* (University of Alberta, Canada) for the presentation "Unraveling the crystallization history of poikilitic shergottite Northwest Africa 12002"; *Catherine Harrison*, (Natural History Museum, London; University of Manchester, UK), for the presentation "Fe-sulfides in experimentally and naturally heated CM chondrites"; *Alissa Madera* (Rutgers University, USA) for the presentation "Sector-zoned pyroxenes in young lunar mare basalt Northwest Africa (NWA) 8632: Insights into crystallization kinetics during late-stage volcanism on the Moon"; *Peter Mc Ardle* (University of Manchester, UK) for the presentation "The Qingzhen reaction – a fine-grained mineral assemblage associated with djerfisherite in some EH chondrites"; and *Leah Shteynman* (Arizona State University, USA) for the presentation "Direct U-Pb measurements of reidite from Rochechouart impact structure".



Zoe Wilbur



Sophie Benaroya



Catherine Harrison



Alissa Madera



Peter Mc Ardle



Leah Shteynman

Congratulations to the awardees for outstanding presentations! Additionally, thank you to *Alex Ruzicka* for chairing the committee and to these 41 individuals for their judging reports: *Jens Barosch, Helena Bates, Enrica Bonato, Aaron Cavosie, Hasnaa Chennaoui Aoudjehane, Cari Corrigan, Gerardo Dominguez, Emilie Dunham, Scott Eckley, Timmons Erickson, Tim Fagan, Ryota Fukai, Matt Genge, Sammy Griffin, Romy Hanna, Natasha Johnson, Jim Karner, Gunther Kletetschka, Piers Koefoed, Mizuho Koike, Nan Liu, Rhiannon Mayne, Kaitlyn McCain, Jennifer Mitchell, Angel Mojarro, Andrea Patzer, Nicolas Randazzo, Philip Reger, Alex Ruzicka, Elizabeth Silber, Justin Simon, Robert Steele, Melissa Strait, François Tissot, Allan Treiman, Tomo Usui, Lionel Vacher, Maria Valdes, Toru Yada, Bidong Zhang, Ke Zhu.*

We appreciate that we are able to celebrate the scientific contributions of our student members through these awards associated with our annual meeting.

IN MEMORIAM: HIROSHI TAKEDA

Hiroshi Takeda, an emeritus professor at the University of Tokyo, Japan passed away on September 11, 2023, just one day short of his 89th birthday. Globally recognized for his groundbreaking work in mineralogy and crystallography for solid Earth and planetary material science, Takeda's accolades are numerous. Notably, he received the Leonard Medal from the society in 2010. Back home in Japan, he was honored with the Special Award during the Japan Mineralogical Society's 50th anniversary in 2002 and the esteemed 26th Manjiro Watanabe Award in 2009. His legacy was further cemented when a new Ca borate mineral was named "Takedaite" in his honor in 1995, and asteroid (4965) was dubbed "Takeda" in 2001. For his invaluable contributions to lunar sample studies and his research on meteorites for NASA, he was awarded NASA's Public Service Medal in 1996. Takeda was a highly accomplished researcher, studying many types of planetary materials, in particular, lunar rocks, HEDs, and ureilites. He was also a critical player in the Japanese lunar exploration program.



Takeda was active in academic organizations both in Japan and abroad, continuously showcasing the strength of Japan's solid planetary material science on the international stage. For our society, he was active in roles such as a council member (1981–1986) and associate editor of *Meteoritics* (1988–1992). He was a chair for the Cosmic Mineralogy Working Group of the International Mineralogical Association (IMA) (1991–1995). In Japan, he served as vice-president during the founding of the Japanese Society for Planetary Science (1992–1996) and as a councilor of the Japan Mineralogical Society for two decades.

This is just a short list of Takeda's accomplishments, contributions, and accolades. Please see the full citation written by Takashi Mikouchi, Akira Yamaguchi, and Larry Nittler, at the Meteoritical Society website (<https://meteoritical.org/news/hiroshi-takeda-1934-2023>).

THE BARRINGER FAMILY FUND FOR METEORITE IMPACT RESEARCH

The Barringer Crater Company has established a special fund to support field work by eligible students interested in the study of impact cratering processes. The Barringer Family Fund for Meteorite Impact Research will provide a number of competitive grants in the range of \$2,500 to \$5,000 for support of field research at known or suspected impact sites worldwide. Grant funds may be used to assist with travel and subsistence costs, as well as laboratory and computer analysis of research samples and findings. Masters, doctoral, and post-doctoral students enrolled in formal university programs are eligible. Application to the fund will be due by 5 April 2024, with notification of grant awards by 7 June 2024.

Additional details about the fund and its application process can be found at: http://www.lpi.usra.edu/science/kring/Awards/Barringer_Fund.

RENEW YOUR MEMBERSHIP NOW!

Please renew by 31 March 2024; after that date, a \$15 late fee will be assessed. You can easily renew online at <https://meteoritical.org/membership/join>.

<http://meteoriticalsociety.org>

THANKS TO OUR SOCIETY'S COMMITTEE MEMBERS

The Meteoritical Society would like to extend its sincere thanks to all those members who are serving on society committees this year. We have listed their names below, with the names of the committee chairs in bold. Without the generous help of these members, the Met Soc could not function. We greatly appreciate their help!

Officers and Council

Elected Officers and Councilors of the Society

Nancy Chabot	President
Guy Consolmagno	Vice President
Brigitte Zanda	Past President
Jutta Zipfel	Secretary
Tasha Dunn	Treasurer
Candace Kohl	Deputy Treasurer
Henner Busemann	Councilor
Byeon-Gak Choi	Councilor
Alvaro Crósta	Councilor
Sarah Crowther	Councilor
Elena Dobrică	Councilor
Denton Ebel	Councilor
Marina Ivanova	Councilor
Ann Nguyen	Councilor

Editorial Personnel

Editors of the Society's publications

Tim Jull	Editor of <i>Meteoritics and Planetary Science</i>
Jeff Catalano	Executive Editor of <i>Geochimica et Cosmochimica Acta</i>
Cari Corrigan	Editor of the Meteoritical Society contributions to <i>Elements</i>

Ethics Committee

Addresses ethics complaints brought to the attention of the society, following guidelines laid out in the Code of Ethics

Brigitte Zanda (chair)	2024
Trevor Ireland	2025
Rhonda Stroud	2026

Leonard Medal Committee

Recommends candidates for the Leonard Medal, Nier Prize, and election of Fellows

Alexander N. Krot (chair)	2025
Larry R. Nittler	2026
Audrey Bouvier	2027
Gretchen Benedix	2028
Takashi Mikouchi	2029

Barringer Award Committee

Recommends candidates for the Barringer Award for outstanding work in the field of impact cratering

Thomas Kenkmann (chair)	2024
Ludovic Ferrière	2025
Hasnaa Chennaoui Aoudjehane	2026
Gareth Collins	2027

Publications Committee

Oversight for the Society's journal *Meteoritics and Planetary Science*

Janice Bishop	2024
Susanne Schwenzer (chair)	2024
Wataru Fujiya	2025
Rhiannon Mayne	2025
Daniel Glavin	2026
John Spray	2026
Ex officio member: the Society Treasurer, Tasha Dunn	

Joint Publications Committee

Oversight of the Journal *Geochimica et Cosmochimica Acta*

Caroline Peacock (GS)	2023
Conel Alexander (MS) (chair)	2024
Fang-Zhen Teng (GS)	2024
Matthew Fantle (GS)	2025
Maria Schönbacher (MS)	2025
Shogo Tachibana (MS)	2026

Endowment Committee

Oversees the Society's investment fund

Dennis Harries	2024
Gary Huss	2024
Drew Barringer (co-chair)	2025
Rhian Jones (co-chair)	2025
Candace Kohl	2025

Ex officio member:
Treasurer of the Meteoritical Society, Tasha Dunn

Audit Committee

Produces an audit of the Treasurer's annual report for each fiscal year

Dominik Hezel (chair)	2025
Andrew Beck	2024
Katherine Bermingham	2026

RENEW YOUR MEMBERSHIP NOW!

Don't forget to renew your society membership! Student membership is \$10, Early Career \$40, Retired \$40, Standard \$80. There are also options for individuals from developing countries and for Lifetime membership. You can renew online at: <https://meteoritical.org/membership/join>. There you can also choose whether you wish to receive your journals in print, online only, or both.

Nomenclature Committee

Defines guidelines for the naming of meteorites, and approves new names; publication of the Meteoritical Bulletin and the Meteoritical Bulletin Database.

Katherine Joy	2024
Francis McCubbin (chair)	2024
Bingkui Miao	2024
Camille Cartier	2025
Devin Schrader	2025
Bidong Zhang	2025
Cyrena Goodrich	2026
Ansgar Greshake	2026
Juliane Gross	2026

Ex officio members: Vice-President of the Society (Guy Consolmagno) and the Editors of the Meteoritical Bulletin (Jerome Gattacceca) and the Meteoritical Bulletin Database (Jeff Grossman).

Pellas-Ryder Award Committee

Recommends candidates for the Pellas-Ryder Award for the Best Student Paper in Planetary Sciences

Sam Birch GSA (chair)	2024
Aki Takigawa (MS)	2024
Ashley King (MS)	2025
Jen Piatek (GSA)	2025
Jim Karner (MS)	2026
Lauren Jozwiak (GSA)	2026

Nominating Committee

Nominates Society's officers and councilors

Tim Swindle (chair)	2024
Tim Fagan	2024
Kuljeet Marhas	2024
Caroline Smith	2024
Miriam Telus	2024
Kai Wünnemann	2024

Membership Committee

Recruit and retain members; advise the Council on membership issues and the Service Award recipient

Natasha Almeida	2024
Ian Sanders (Ed Scott Lectures)	2024
Romy Hanna (chair)	2025
Queenie Chan (Newsletter Editor)	2025
Juliette Faucher	2025
Michelle Thompson	2025
Maizey Benner	2026
Tomohiro Usui	2026
Kai Wünnemann	2026

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web

www.msaweb.org

PRESIDENT'S LETTER

MSA at the Tucson Gem & Mineral Show 2024



Donna Whitney

In the last MSA Society News, I wrote about new ideas for interactions between MSA and other mineralogical communities beyond those involved in mineral sciences research. One example that I gave was the Tucson (Arizona, USA) Gem and Mineral Show. I wrote about this example in advance of the show, which takes place annually in February, and now I am writing about my experiences at the show, which I attended for the first time.

The official center of the show is held at the Tucson Convention Center, where there is an

exhibit hall with minerals and mineral-related items for sale, as well as a place for educational and information booths such as the MSA booth. There are also many other sites around Tucson where minerals, gems, fossils, and related items are sold—these sites range from enormous tents to small shops and hotel rooms.

At the convention center, MSA has a booth similar to the one that we have at the Geological Society of America Annual Meeting, but with some differences to account for the different audience. For example, on the Friday of the show, many school groups from the Tucson area come to the convention center. On the weekend, there are a lot of families at the show. MSA is very grateful to the Tucson Gem and Mineral Society, the organizers, and, in particular, Patricia McClain, for their help in facilitating the workshops and other aspects of MSA's involvement in the show.

The efforts and creative energies of MSA Executive Director Ann Benbow, Emeritus Executive Director Alex Speer, and MSA members Thomas Hale and John Rakovan, as well as Monica Rakovan, are the reason for



Joint booths of the MSA, MAC, and Minerals in Context at the 2024 Tucson Gem and Mineral Show. PHOTO: J. ALEX SPEER.

the success of the booth, which MSA shares with the Mineralogical Association of Canada (MAC) and the Minerals in Context non-profit organization created and led by Thomas Hale.

The MAC booth had publications—including two books on pegmatites, both of which sold out. (Not surprisingly, as the theme of the 2024 Tucson Show was pegmatites.) The MSA booth had free items such as an *Elements* magazine-themed periodic table of the elements. MSA brought 400 copies, and all were taken. Also popular were geology-themed stickers, MSA logo stickers, and educational displays such as the ones on cobalt, mineral density, electric car batteries, and the mineral content of pencil “leads.”

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McKay Award Committee

Nominates candidates for the best student presentation at the annual meeting

Alex Ruzicka (chair) 2024

Vincianne DeBaille (vice-chair) 2024

Jessberger Award Committee

Recommends candidates of outstanding mid-career femal isotope geochemists for the Jessberger Award

Noriko Kita 2025

Sara Russell 2025

Larry Nittler (Leonard Medal Committee liaison) 2026

Thomas Stephan (chair) 2027

Monica Grady 2029

Impact Cratering Committee

Defining criteria for the identification of impact craters/structures; publication of a terrestrial impact crater database

Natalia Hauser 2024

Christian Koeberl 2024

Gordon Osiniski 2024

David Baratoux 2025

Aaron Cavosie (chair) 2025

Anne-Marie Pickersgill 2025

Sanna Alwmark 2026

Thomas Kenkmann 2026

Ex officio members:

Guy Consolmagno (Vice-President)

and Ludovic Ferriere (Database-Editor, 2026)

Outreach ad hoc Committee

Publicizes the society's content to the broader scientific community

Adriana Araujo 2024

Soukaina Arif 2024

Sophie Benaroya 2024

Philippe Claeys 2024

Cari Corrigan 2024

Dustin Dickens 2024

Ania Losiak 2024

Hayley Lowe 2024

Gordon Osinski (chair) 2025

Petanki Soro 2024

Jason Williams 2024

ANNUAL MEETING SCHEDULE

2024	28 July–2 August	Brussels, Belgium (EU)
2025	13–18 July	Perth, Western Australia (Australia)
2026	9–14 August	Frankfurt, Germany (EU)
2027	Dates TBD	Flagstaff, Arizona (USA)



<http://meteoriticalsociety.org>

REPORT OF THE METEORITE NOMENCLATURE COMMITTEE



The Nomenclature Committee (NomCom) continues to receive submissions at an increasing rate each year, so we are happy to report that Earth's supply of meteorites continues to grow. Furthermore, many of the meteorite-collecting efforts that were postponed or paused since the start of the COVID-19 pandemic have since resumed (e.g., ANSMET).

Many individuals are responsible for the success of NomCom, including all the NomCom members, scientists, and engineers that improve our ability to find and detect meteorites, meteorite finders and classifiers, and repository curators. I would like to thank everyone mentioned above for their tireless efforts to ensure that the global inventory of meteorites continues to grow and that meteorites remain a rich, valuable, and accessible scientific resource for studying the Solar System rock record. I also want to acknowledge the positive impacts on the study of meteoritics from the global community of meteorite collectors. Their interests and resources help to drive the demand to find new meteorites, and the scientific community continues to benefit from those efforts.

NomCom is currently composed of nine appointed members: Francis McCubbin (Chair; NASA JSC, USA), Camille Cartier (Université de Lorraine, France), Cyrena Goodrich (Lunar and Planetary Institute, USA), Ansgar Greshake (Museum für Naturkunde, Germany), Juliane Gross (Rutgers University, USA), Katherine Joy (The University of Manchester, UK), Bingkui Miao (Guilin University of Technology, China), Devin Schrader (Deputy Editor, Arizona State University, USA), and Bidong Zhang (UCLA, USA); and three ex-officio NomCom members: Jérôme Gattacceca (*MetBull* Editor; CEREGE, France), Jeff Grossman (Database Editor, NASA, USA), and Guy Consolmagno (MetSoc Vice President; Vatican Observatory, Italy).

The NomCom is a committee of The Meteoritical Society; its purpose is to approve new meteorite names and classifications, and to establish guidelines and make decisions regarding the naming and classification of meteorites. New meteorites, dense collection areas (DCAs), type-specimen repository collections, and revisions are published through the *Meteoritical Bulletin* and the Meteoritical Bulletin Database (MBDB) (<https://www.lpi.usra.edu/meteor/>).

As of this writing, there are 73,953 approved meteorites in the Meteoritical Bulletin Database, including 15,653 with a full classification description.

Meteorites and Dense Collection Areas: The 2022 entries of the MBDB, totaling 3904 meteorites, have been published in the *Meteoritical Bulletin*, No. 111 by Gattacceca et al. (2023). The full write-ups of 1307 non-Antarctic meteorites and supplementary tables can be found online as supporting information and in the MBDB archive. The MB 111 includes 11 approved falls as well as 31 new DCAs. *Meteoritical Bulletin* No. 112, containing new meteorites, DCAs, and type-specimen repositories approved in 2023, is in preparation and will be submitted later this year to *Meteoritics & Planetary Science*.

Meteorite naming: remember to send your write-ups for new and provisional names to NomCom at least four weeks before submitting your conference abstract or manuscript to journals to avoid potential issues with naming and classification, which can delay publication. The release of the write-up to the database may be held on request if there is an embargo from publishers.

Finally, please do not hesitate to contact us with questions or concerns about the NomCom, especially with suggestions for improvement (metbulleditor@gmail.com).

Francis McCubbin

Chair of the Nomenclature Committee
NASA Johnson Space Center

REFERENCE

Gattacceca J and 11 coauthors (2023) The Meteoritical Bulletin, No. 111. *Meteoritics & Planetary Science* 58: 901-904, doi: 10.1111/maps.13995

PAUL PELLAS / GRAHAM RYDER AWARD WINNER

The Pellas-Ryder Award for the best student paper in planetary sciences is jointly sponsored by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America. It is awarded to an undergraduate or graduate student who is first author of the best planetary science paper published in a peer-reviewed scientific journal during the year prior to the award. The award has been given since 2001 and honors the memories of meteoriticist Paul Pellas and lunar scientist Graham Ryder.

Congratulations to the 2024 winner for this highly deserved honor and for leading this impressive study! We also thank everyone who submitted nomination packages and the Pellas-Ryder Award Committee for their work to make this award possible.

12 NEW ENDOWMENT GRANTS AWARDED

The Meteoritical Society Endowment Fund (<https://meteoritical.org/grants/general-endowment-fund>) supports a variety of activities through grants that advance the goals of the society, with selections made twice a year. The recently selected grant efforts are:

Community Grants – more details on the Meteoritical Society website

Samanta Aravena (*Universidad de Chile, Chile*) – Meteorites: Human Heritage

Nicholas Gessler (*Duke University (retired), USA*) – EL ALI in Contemporary Somali Media (Translated into English)

Richard Greenwood (*The Open University, UK*) – A New Meteorite Gallery at the Open University: A Community Science Outreach Resource

Kuljeet Kaur Marhas (*Physical Research Laboratory, India*) – 4th Symposium on “Meteoroids, Meteors and Meteorites: Messengers from Space” (MetMeSS-2024)

Peng Ni, Bidong Zhang (*UCLA, USA*) – Meteorite Information Digitization and Archiving (MIDIa) at UCLA

Lee Franci White (*The Open University, UK*) – Engaging Local Schools at the European Lunar Symposium (ELS)

Mehmet Yesiltas (*Kirklareli University, Turkey*) – Turkish All-Sky Fireball Network

Research Grants – more details on the Meteoritical Society website

Luke Alesbrook (*University of Kent, UK*) – Impacting Exotic Ices

Mayssa Daldoul (*University Tunis El Manar, Tunisia*) – Mapping Martian Craters

Yeimmy Alexandra Gutierrez Pardo (*Universidade de Brasília, Brazil*) – Genesis of the Mafic Granophyre Impact Melt Rock, Vredefort Impact Structure, South Africa



Sadeeda Marjan (*University of Kerala, India*) – Hydraulic Modelling and CRN Dating of Inlet and Outlet Valleys on Terrestrial and Martian Craters

Ran Zhao (*University of Bayreuth, Germany*) – Meteoroid Impacts

Additionally, one proposal submitted for consideration of a Community Grant was recommended by the Membership Committee to be supported out of the society's operating budget rather than the endowment fund went to **Thomas Burbine** (*Mount Holyoke College, USA*) – Information Booth at AGU.

GIFTS AND GRANTS GUIDELINES

The stated mission of the Meteoritical Society is “to promote research and education in planetary science with emphasis on studies of meteorites and other extraterrestrial materials that further our understanding of the origin and history of the solar system.” Besides the Society's publications, the annual scientific meetings, establishing official names for newly found meteorites, and the awards sponsored by the Society, there are other ways by which we work toward furthering our mission. This includes supporting student travel to conferences and workshops, supporting student research, assisting scientists from economically disadvantaged countries, supporting classes or field schools, especially those that bring meteoritics and planetary science to developing countries, compiling oral histories from prominent members of the Society, and supporting outreach to the broader public community on meteoritics and planetary science.

To support these activities, the Society has created an Endowment Fund. The majority of the Endowment consists of the *General Fund* which can support one-time activities that are not part of the normal Society business. The Endowment Fund also has named funds, the *Nier Fund*, the *McKay Fund*, and the *TIM Fund*, which were established for specific purposes. Details about activities supported by all of these Funds can be found under Activities Supported on the society website (<https://meteoritical.org>).

For those who wish to assist in this mission, donations can be made to the General Fund or to any of the specific Funds (see Ways to Contribute on the society website).

ANNUAL MEETING SCHEDULE

2024	July 28–Aug 2	Brussels, Belgium (EU)
2025	July 14–18	Perth, WA (Australia)
2026	August 9–14	Frankfurt, Germany (EU)
2027	Dates TBD	Flagstaff, Arizona (USA)

RENEW YOUR MEMBERSHIP NOW!

Please don't forget to renew your membership for 2024. Students, this is particularly important if you are interested in applying for one of our student presentation awards, as you must be a member to be eligible. You can renew online at <https://meteoritical.org/membership/join>.

MEDAL FOR RESEARCH EXCELLENCE 2023: JOSÉ ALBERTO PADRÓN-NAVARTA

One of the means by which the European Mineralogical Union (EMU) fosters and encourages research in the mineralogical sciences is to present a silver medal each year. The “**EMU Research Excellence Medal**” is presented to early career scientists (no more than 15 years since completion of PhD) who have made significant contributions to research and who are active in strengthening European scientific links.



The 2023 EMU Research Excellence Medal has been awarded to **Dr. José Alberto Padrón-Navarta** from the Andalusian Earth Science Institute (IACT), Granada (Spain).

Dr. Padrón-Navarta has achieved remarkable success in the fields of mineralogy and petrology, offering groundbreaking insights into the cycle and fate of volatiles through Earth's subduction zones.

Dr. Padrón-Navarta completed his PhD at the University of Granada, Spain. After undertaking postdoctoral research fellowships in Australia and France, he joined the French National Center for Scientific Research (CNRS) at Géosciences Montpellier. In 2021, he returned to IACT (Granada) under the prestigious Ramón y Cajal Fellowship.

Dr. Padrón-Navarta has made outstanding contributions to mineralogy and petrology by providing novel and detailed insights into the cycle and fate of volatiles on planet Earth through subduction zones into the deep mantle. He has integrated methods from several disciplines to discover “invisible” oceans within Earth's deep interior. He has published several landmark papers on the mineralogy, phase relations, experimental petrology, rheology, microstructure, and the geochemical consequences of subducting hydrated mafic-ultramafic lithologies. He played an instrumental role in significant papers on the importance of serpentinite in the cycling of water, sulfur, and carbon, and in the thermodynamic modelling of chromite alteration.

Dr. Padrón-Navarta published a pioneering experimental and thermodynamic study on the critical role of Tschermak's solubility in antigorite, related to the stability of serpentinites. His research also encompasses the mechanisms and thermodynamic modelling of hydrogen in nominally anhydrous minerals (NAMs) and their role in recycling water in the deep Earth. In this emerging field, he has made essential contributions on site-specific hydrogen diffusion rates and hydrogen incorporation in forsterite.

Dr. Padrón-Navarta has been invited as a keynote speaker to many prestigious international meetings (e.g., American Geoscience Union, European Geosciences Union, Goldschmidt, International Geological Conference) and has convened many sessions on the cycling of volatiles and NAMs (e.g. EGU meetings, Goldschmidt, IMA). He has established collaborations with leading researchers and institutions in these fields in Europe and worldwide. He is the recipient of prestigious European research funds, such as Marie Curie and ERC Consolidator (2022) grants, reflecting the significance, excellence, and European embeddedness of his research and achievements. He leads the IACT high-pressure experimental research group, equipped with FTIR facilities to track oxygen, water, or hydroxyls and assess volatile recycling at subduction zones.

Dr. Padrón-Navarta's research achievements are game-changers in mineralogy and petrology, providing fundamental contributions to our understanding of volatile cycles at subduction zones. This makes him a highly deserving recipient of the 2023 Research Excellence Medal of the European Mineralogical Union.

<http://meteoriticalsociety.org>

2024 METEORITICAL SOCIETY TREASURER'S REPORT



Tasha Dunn

The Society's finances continue to be on a sound footing, and both the Operating Fund and Investment Fund are currently very healthy. I will present a full report of our finances at the annual meeting in Brussels. This report discusses two changes to the way the Society invests and spends its money: 1) a move towards sustainable investing and 2) an increase in our general endowment annual spending rate.

After management of the investment fund was transferred to DA Davidson in the fall of 2022, the Endowment committee began to explore options for ethical/sustainable investing with our DA Davidson fund manager, Andrew Cromwell. At the annual meeting in Los Angeles, the Council voiced their support for more sustainable investing and asked the Endowment Committee to submit a formal proposal. In the fall of 2023, the Endowment Committee recommended that the Society transfer \$200,000 from our current investment fund into the Blackrock Environmental, Social, and Governance (ESG) multi-asset fund. The Council unanimously approved this proposal, and the new fund was opened in January of 2024.

As of May 23, the balance of the Blackrock Investment account was \$215,650 (+7.4%). The Endowment Committee will assess the performance of the fund every quarter, and if the fund continues to perform well, additional monies will be transferred from the primary investment fund into the Blackrock ESG fund in \$200,000 increments. The Society's goal is to invest as much as ethically as possible over time.

At the suggestion of the Audit Committee, the Council also addressed concerns regarding the size of our investment fund, which at \$2.5 million, is quite large. The investment fund is distributed across six endowed funds. The Nier, McKay, and Jessberger funds, which support our named awards, have a combined balance of ~\$265,500. The TIM and Norton funds support member travel to the annual meeting, and have a combined balance of ~\$295,500. The largest fund is the General Endowment Fund, which supports a variety of outreach projects, research grants, and early career travel to annual meetings; this fund has a value in excess of \$1,800,000.

The Endowment Committee is responsible for allocating funds in the General Endowment Fund. The Society's Bylaws state that 5% of the general endowment's value can be allocated for spending each year. However, in the years following the pandemic, the Endowment Committee (in accordance with investing guidelines) opted to allocate 4% for spending. This past fall, with a healthy investment fund and stable financial outlook, the Council opted to increase the annual spending rate to 5%. Starting in fiscal year (FY)25 (June 1, 2024–May 31, 2025), the Endowment Committee will allocate 4% of the General Endowment for grants and 1% for Early Career travel awards. In FY25, this amounts to \$73,100 and \$18,300, respectively.

Requests for funding from the general endowment are considered twice annually, on January 15 and June 15. **Community Fund Grants (formerly Endowment Fund Grants)** (open to all members) support activities that further the goals of the Meteoritical Society, and **Research Grants** (open to students and early-career researchers) support collaborative research in the fields of meteoritics and planetary science. More information about these grants can be found on the website: <https://meteoritical.org/grants/general-endowment-fund>. Please see the website for a list of recently funded grants: <https://meteoritical.org/news/endowment-fund-grants-announced>.

Proposals for community fund grants or research grants should be emailed to the secretary (metsocsecretary@gmail.com). If you have any questions, please contact the chair of the Endowment Committee, Rhian Jones (rhian.jones-2@manchester.ac.uk).

2024 MEMBERSHIP REPORT

Membership in the Meteoritical Society is open to any person interested in meteoritics and related sciences regardless of residence, citizenship, or age. As of June 2024, the Meteoritical Society comprises 482 regular members, 161 students, 121 early career members, 194 retired members, 59 life members, and 21 members from developing countries. This brings us to a grand total of 1038 members in 58 countries, an increase of 123 members since 2022. To encourage students and early career researchers to join the society, last year we implemented a new fee structure: **Early career memberships are only \$40 USD** (which we define as anyone who is within 10 years of completing their PhD), retiree memberships are also only \$40, and **student memberships have been reduced to only \$10**. As a result, we have seen a 32% increase in student membership from 2022. Student members have the opportunity to apply for small research grants twice a year, as well as for travel grants to the annual meeting where they can compete for presentation awards. This year, the society is also hosting a student luncheon and an early career reception at the annual meeting, providing an excellent chance to interact with peers and network. In addition, the Society has a mechanism in place to subsidize annual dues for members in low-income countries. Prior approval is required from the Membership Committee for this rate—please refer to our website at <http://www.meteoriticalsociety.org> for more information.

For more information and details on how to become a member of the Meteoritical Society, please see our Society web page at <https://meteoritical.org/membership/join>.

PAUL PELLAS / GRAHAM RYDER AWARD WINNER

The Pellas-Ryder Award for the best student paper in planetary sciences is jointly sponsored by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America. It is awarded to an undergraduate or graduate student who is first author of the best planetary science paper published in a peer-reviewed scientific journal during the year prior to the award. The award has been given since 2001 and honors the memories of meteoriticist Paul Pellas and lunar scientist Graham Ryder.



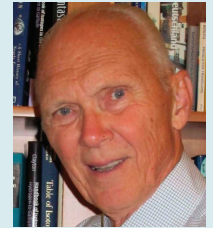
Ren Marquez, a graduate student at Caltech, Pasadena, USA, is the winner of the 2024 Pellas-Ryder Award for the paper entitled "Snapshots of an Evolving Solar Nebula Recorded in Nucleosynthetic Sr and Ba Signatures of Early Condensates" published in *The Astrophysical Journal Letters*. Ren developed new wet chemistry techniques that allowed for analyses of the smallest and most refractory components of fine-

grained calcium-aluminum-rich inclusions (as low as ~80 pg of barium). This technique permitted a more precise quantification of the geochemical features hidden within meteorites, allowing for a more detailed understanding of the sequence of contributions from a multiplicity of stellar end-members that contributed to the early Solar System's composition.

Congratulations to Ren for this highly deserved honor and for leading this impressive study! We also thank everyone who submitted nomination packages and the Pellas-Ryder Award Committee for their work to make this award possible.

Country	Developing Country	Lifetime	Retired	Standard	Early Career	Student	Total
Algeria	3						3
Argentina				1	1		2
Australia			4	12	3	6	25
Austria		1	1	6	1	1	10
Belgium			1	8	5	2	16
Brazil			1	3		5	9
Canada		3	12	14	3	6	38
Chile				2	1	3	6
China	2	5	2	13	5	3	30
Colombia	2				1		3
Costa Rica				1			1
Cyprus						1	1
Czechia				4		2	6
Denmark			2	2		1	5
Finland	1			2	2	2	7
France		5	11	18	4	11	49
Germany		8	15	48	11		82
Greece				1		2	3
Holy See				2			2
Hong Kong				1			1
Hungary		1		3		1	5
India	4			3		8	15
Ireland					1		1
Italy			3	8	4	1	16
Japan			10	65	9	9	93
Korea (the Republic of)				2		1	3
Latvia				1		1	2
Lithuania				1	1		2
Luxembourg			2	1			3
Malaysia				1			1
Mauritania	1						1
Mexico	1	1	1				3
Morocco	3	1	1			3	8
Netherlands				1		2	3
New Zealand				1		1	2
Norway			1		1		2
Oman	1		1				2
Poland			1	3			4
Portugal				1			1
Romania	1			1	1		3
Russian Federation				7	1		8
Singapore				1			1
Slovakia				1			1
South Africa				2			2
Spain			1	9			10
Sweden			1	3	1	4	9
Switzerland		1	7	9	5	8	30
Taiwan						1	1
Tunisia						1	1
Turkey						1	1
Ukraine					1		1
United Kingdom		3	6	25	17	24	75
United States of America	1	30	110	194	42	48	425
Uruguay				1			1
Viet Nam	1						1
N/A						2	2
Total	21	59	194	482	121	161	1038

IN MEMORIAM – DONALD CLAYTON (1935–2024)



Donald D. Clayton, recipient of the 1991 Leonard Medal of the Meteoritical Society, passed away on January 3, 2024. Prof. Clayton received his PhD at Caltech (USA) under the mentorship of Nobel Laureate William Alfred Fowler in 1961. He spent his career first at Rice University (USA) in 1963, where he was one of the founding faculty members of their Department of Space Science (later Space Physics and Astronomy) and then from 1989 on at Clemson University (USA), where he established a still-thriving group in nuclear astrophysics and gamma-ray astronomy.

Among Clayton’s many scientific accomplishments, he developed the first quantitative analysis of the slow neutron capture process for forming heavy elements in stars, he predicted many of the effects of radioactivity in supernovae, including that gamma rays from them would be detectable, and he explained how radioactive abundances evolved in the interstellar medium. Clayton advanced important ideas of nuclear astrophysics manifested in meteorites, including the use of radioactive chronometers and, most importantly, predicting the existence of and making seminal contributions to the study of presolar stardust grains.

Clayton retired in 2007, but remained active in research until very recently. He wrote several books, including a classic nuclear astrophysics textbook, a science fiction novel, a scientific memoir, and a handbook of the isotopes. His Leonard Medal Address is available in MAPS (doi: 10.1111/j.1945-5100.1992.tb01053.x).

The Donald D. Clayton Memorial Fund for support of graduate student research in astrophysics and meteoritics has been established in his memory.

Larry Nittler (with credit to <https://blogs.clemson.edu/physics-and-astronomy/2024/03/11/obituary/>)

MEETING INFO

2025	14–18 July, Perth, Western Australia (Australia)
2026	9–14 August, Frankfurt, Germany (EU)
2027	July/August TBD, Flagstaff, Arizona (USA)
2028	July 30–August 4 (tentative), Antofagasta (Chile)

<http://meteoriticalsociety.org>**2025 ANNUAL MEETING INVITATION – PERTH**

You are cordially invited to attend the 87th annual meeting of The Meteoritical Society, which will take place from July 13 to 18, 2025, at the Perth Convention and Exhibition Center (PCEC) in Perth, Western Australia. The meeting is hosted by Curtin University's School of Earth and Planetary Sciences and the Space Science and Technology Centre. On-site conference registration will begin at 3 pm on Sunday, July 13, with a welcome reception commencing at 5 pm at the WA Museum Boola Bardip, home of one of the largest meteorite collections in the world. Oral and poster sessions as well as the Barringer Invitational Lecture will take place at the PCEC. Proposals for additional special sessions are encouraged. Further details



regarding the scientific program will be provided at a future date. Details will be posted at <https://metsoc2025.au/>. PCEC is located at Elisabeth Quay in the heart of Perth's central business district (CBD) with plenty of accommodation options within walking distance, and also a free public bus ride within the CBD. The annual banquet will be held at Fraser's Restaurant in Kings Park on Wednesday evening. Kings Park is a short (but uphill) walk from PCEC. It is worth it—you will be impressed

with spectacular views of Perth city and the Swan River. Currently, there are no public health restrictions on gatherings in Perth and elsewhere in Western Australia. We are planning for an in-person only meeting. Transportation to PCEC from Perth Airport is easy—either by public transport, taxi, or Uber. Perth is a vibrant city with many entertainment options. The great outdoors of bush and beyond is a short drive away. We are offering a plethora of geology and non-geology tours available to be pre-booked at registration and on site. Due dates will be released soon, but expect the usual timeframes. For those needing a visa to enter Australia, please allow for a two-month lead-in time to avoid disappointment. July is winter in Australia, so expect shorter daylight time and cool days (perfect for field trips!). Rain is a possibility although usually doesn't last too long. We encourage you to reserve the dates of July 13–18 (and longer if you opt for a post-conference field trip to see Australian impact craters) on your calendar today! Please note that the Meteoroids conference is also happening in Perth a week before MetSoc, for those brave enough to undertake back-to-back conferences. We look forward to welcoming you to Perth in 2025!

Cordially, **Perth Local Organising Committee**

2024 ANNUAL MEETING TRAVEL AWARDS

On behalf of the Meteoritical Society, we would like to thank the organizations whose generous sponsorships provided student travel grants, postdoc travel grants, and travel grants for scientists from countries with limited financial resources. These sponsoring organizations, and the recipients of the travel awards, are listed below.

This year, 67 travel grants were given to students and researchers who attended the annual meeting of the society in Brussels, Belgium. Student travel grants and travel grants for scientists from countries with limited financial resources are generously sponsored by the Barringer Crater

Company, Elsevier Publishing, the Meteoritical Society, Meteorite Times Magazine, the International Mineral Collectors Association (Brian Mason Award), the Maine Mineral and Gem Museum, the O. Richard Norton Fund, NASA (Planetary Sciences Division), the Planetary Studies Foundation, and the Darryl Pitt/Macovich Meteorite Collection.

Barringer Crater Company Travel Awards

Allen, N. M.
Benner, M. C.
Boulton, S. P.
Boyd, M. R.
Branagan-Harris, E.
Currie, B. G.
Davis, J. R.
Distel, A. G.
Du, T. R. T.
Ravy, D. T.
Sadaka, C.
Sheikh, D.
Shteynman, L.
Tsuruoka, Y.
Wilbur, Z. E.
Zheng, Y.

Brain Mason Awards:

Smith, L. R.
Welzenbach, L. C.

Elsevier Travel Awards

Chernonozhkin, S. M.
Masuda, Y.
Rider-Stokes, B. G.
Seifert, L. B.

Maine Mineral and Gem Museum Award

Mattia, I. S.

Meteoritical Society Travel Awards

Boaca, I.
Cuppone, T.
Forman, L. V.
Grant, H.
Hyde, W. R.
Kaskes, P.
Maeda, R.
Ostwald, A. M.
Rubino, S.
Salin, E.
Stephant, A.
Zhu, K.

Meteoritical Society TIM Fund Awards

Arif, S.
Chennaoui Aoudjehane, H.
El Hachimi, E. L.
Jadid, F. E.

NASA Student Travel Grant Awards

Adams, G. M.
Diaz, C. A.
Faison, T. J'N.
Ishimaru, K.
Korsmeyer, J. M.
McFadden, J. A.
Mijjum, M.
Prakash, M.
Prince, B. S.
Ramsey, S.
Yang, X.

O. Richard Norton Fund Travel Awards

Aloisius, R. M. L.
Gibson, H. E.
Haller, R. L.
Hammett, M.
Harrison, C. S.
Martin, P.-E., M. C.
Musolino, A.
Ong, I. J.
Papola, G. S.
Sanders, T. J.
Simopoulou, M.
Tyminski, Z.

Planetary Science Foundation Awards

Gray, M. L.
Kerrison, N. A.

Darryl Pitt / Macovich Collection Awards

Eckart, L. M.
Furukawa, S.
Marshal, R. M.

MEETING INFO

2025	13–18 July	Perth, Western Australia (Australia)
2026	9–14 August	Frankfurt, Germany (EU)
2027	July/August TBD	Flagstaff, Arizona (USA)
2028	30 July–4 August (tentative)	Antofagasta (Chile)

CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the Society's awards. Nominations should be sent to Secretary Munir Humayun (metsec@gmail.com) by January 15 (January 31 for the Service Award and the Pellas-Ryder Award). For more information and details on how to submit a nomination for any of these awards, please see the latest Newsletter at the Society website or email the secretary.

The Society gives a number awards each year. The **Leonard Medal** honors outstanding contributions to the science of meteoritics and closely allied fields. 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 **Nier Prize** recognizes outstanding research in meteoritics and closely allied fields by young scientists. The **Service Award** honors members who have advanced the goals of the Meteoritical Society to promote research and education in meteoritics and planetary science in ways other than by conducting scientific research. The **Paul Pellas – Graham Ryder Award** is given for the best student paper in planetary science and is awarded jointly by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America. The newest society award, the **Elmar Jessberger Award**, will be given to a mid-career female scientist in the field of isotope cosmochemistry.

RECENT GRANTS AWARDED BY THE METEORITICAL SOCIETY

We are happy to announce the second recipients of the Meteoritical Society Research Grants. The Meteoritical Society Research Grant is exclusively directed to students and early career researchers who are members of the Meteoritical Society. The grants aim to promote collaborative research in the fields of meteoritics and planetary sciences, and provide funding to aid novel and interdisciplinary research ideas not yet funded elsewhere. We appreciate the many strong applications received for this opportunity, and we thank the Endowment Committee for their work creating this new initiative and for leading the selection process.

- **Hely Branco** (*Curtin University, Australia*), PhD Student
- **Zachary Burton** (*Bates College, USA*), Visiting Assistant Professor

- **Camila Caviedes Cameron** (*Universidad de Atacama, Chile*), PhD Student
- **Neeraja Chinchalkar** (*University of Western Ontario, Canada*), Research Technician
- **Helen Grant** (*IAPS-INAF, Italy*) Postdoctoral Researcher
- **Swarna Prava Das** (*National Institute of Science Education and Research, India*), PhD Student
- **Sathyan Sachana** (*University of Kerala, India*), PhD Student
- **Ankit Singh** (*Physical Research Laboratory/Gujarat University, India*), PhD Student
- **Alice Stephant** (*University of Firenze, Italy*), Postdoctoral Researcher

The next application deadline will be 15 January 2025. Details about scope, eligibility, funding, and the application form can be found on the Endowment page of the website.

METEORITICAL SOCIETY ENDOWMENT GRANTS

The Meteoritical Society Endowment Fund also supports a variety of activities through grants that are made twice a year. We are very pleased to announce that three grants were recently selected for funding in the summer of 2023. Thank you to the Endowment Committee for their efforts leading this opportunity. More information can be found on each project on the Society Website.

- Planetary and Space Science Outreach for Senior High Schools in Ghana, Lead: Marian Selorm Sapah
- Bay Area Planetary Science Conference and Development of a Field Course to Explore a Potential Impact Structure, Lead: Myriam Telus
- Workshop on Planetary Impacts During The Total Solar Eclipse, Leads: Kai Wünnemann and Miki Nakajima

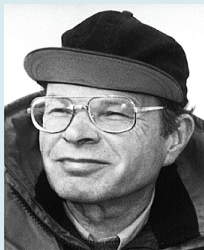
The Meteoritical Society is delighted to be able to support these worthwhile international projects that further the society's goals to promote research and education in planetary science. The next application deadline for Endowment Fund requests is 15 January 2025. Guidelines for submitting your requests can be found on the Society website Grants page.

IN MEMORIAM – BURKHARD DRESSLER (1935–2024)

Burkhard Dressler passed away peacefully on 17 April 2024 in British Columbia, Canada. Burkhard received his PhD in petrology, with a specialization in impact cratering studies, from the University of Munich/Technical University of Munich, Germany in 1970. The extensive field work for his dissertation was on the petrology and shock attenuation at the Manicouagan impact structure in Quebec, Canada.

From 1970 to 1975, Burkhard Dressler worked for the Quebec government conducting geologic mapping. Beginning in 1975, he was a field geologist for the Ontario Geological Survey. He pursued mapping in the Southern, Superior, and Grenville provinces of Ontario, including detailed mapping within the Sudbury Structure. Burkhard and colleagues began the quintennial Large Meteorite Impacts and Planetary Evolution conferences, and Burkhard chaired the first two of these, including editing the subsequent proceedings as Geological Society of America Special Papers. This tradition continues today.

In 1995, Burkhard joined the Lunar and Planetary Institute on a three-year visiting scientist position. During this time, he and Buck Sharpton studied several large terrestrial impact structures, most notably the Haughton structure on Devon Island, the Slate Islands structure, Manicouagan's central



melt sheet, and the Chicxulub structure. Burkhard, Buck, and a number of international colleagues initiated a deep drilling project at Chicxulub, and from 2001–2002, Burkhard served as chief scientist at the Chicxulub ICDP Yaxcopoil-1 drilling site.

From 2000–2002, Burkhard was a visiting researcher with Uwe Reimold and team at the University of the Witwatersrand, Johannesburg (South Africa). They conducted structural investigations in the Witwatersrand region and in the Vredefort impact structure. Burkhard and Uwe published two seminal works entitled “Terrestrial Impact Melts and Glasses” and “Order or Chaos? Origin and Mode of Emplacement of Breccias in Floors of Large Impact Structures.”

During his long and successful career, Burkhard published 56 refereed articles and chapters, 26 of which were dedicated to impact studies. For his efforts in impact cratering research, main-belt asteroid 15359 Dressler (1995 GV2) was named after him. In 2009, Burkhard was nominated by his peers for the Barringer Medal and Award of the Meteoritical Society—for his outstanding contributions to impact cratering studies.

Modified from contribution by Wolfram Dressler (for full address, see society website)

<http://meteoriticalsociety.org>**2024 ANNUAL MEETING REPORT**

The 86th Annual Meeting of the Meteoritical Society (MetSoc 24) was held from 28 July to 2 August 2024, at the Palace of the Academies in Brussels, Belgium. This was the first MetSoc meeting in Belgium, at the heart of Europe, and also the first since the pandemic to be in-person only. The organization was a joint effort between the Université Libre de Bruxelles, the Vrije Universiteit Brussel, and the Belgian Institute of Natural Sciences, and was ensured to run smoothly thanks to the large volumes of Belgian chocolates. In total, 505 participants from 33 different countries attended the conference, including 329 professionals (scientists + exhibitors), 137 student participants, and 39 guests. A total of 470 abstracts were accepted for 314 oral, 150 poster, and 6 print-only presentations. Oral presentations were scheduled in three parallel sessions from Monday (29 July) to Friday (2 August) while two poster sessions took place on Tuesday and Thursday in the late afternoon, with many good discussions over drinks, including the Impact Ale beer, brewed specifically for the conference.



The conference kicked off on Saturday 27 July and Sunday 28 July with the pre-conference workshop chaired by Aurore Hutzler (ESA) and Tomohiro Usui (JAXA) at the Belgian Institute for Natural Sciences in Brussels, dedicated to the advanced curation of extra-terrestrial samples in an increasing international community. Around 100 participants attended the workshop. On Sunday, this was followed by the welcome reception that took place at the magnificent city hall of Brussels. The Barringer lecture was presented on Monday evening by Véronique Dehant of the Royal Observatory of Belgium in the art-deco theater of the Plaza Hotel in Brussels followed by drinks and a walking dinner. Her talk, entitled “Does the Red Planet have a heart? Results from the Mars InSight mission” was dedicated to the deep interior of Mars. The talk was attended by a large audience.

On Wednesday morning, the presentation of Society Awards and distinguished lectures occurred. Monica Grady, recipient of the Leonard Medal, gave a lecture about “A Voyage in Space and Time.” John Spray, recipient of the Barringer Medal, presented on “Bulk Versus Discrete Deformation in Rocks: A Question of Scale?” Richard Greenwood received the Service Award, while Elishevah van Kooten was awarded the Nier Prize. On Wednesday afternoon, the attendees could enjoy some of the cultural hotspots in and around Brussels: the Atomium and the mini-Europe park, the European Parliament and the House of Europe, a walk in the historical center of Brussels, the discovery on boat of the beautiful city of Ghent, or a visit to the Waterloo battlefield where the fate of Europe was determined. The conference banquet took place on Wednesday evening at the Museum of Natural Sciences. The participants could enjoy a walking dinner and some dancing amongst the famous dinosaur gallery.

The conference concluded on Friday mid-afternoon, when around 130 attendees said their goodbyes over ice cream and the last cans of Impact Ale during a farewell party.

The conference program and abstract volume can be accessed on the website of the Lunar and Planetary Institute: https://www.hou.usra.edu/meetings/metsoc2024/technical_program/.

We would like to thank the local organizing committee: Hasnaa Aoudjehanne Chennaoui (Hassan II University of Casablanca), Dina Cabrita (ULB), Bernard Charlier (ULiège), Philippe Claeys (VUB), Max Collinet (UNamur), Sophie Decrée (BINS), Jean-Guillaume Feignon (VUB), Pim Kaskes (ULB), Lisa Kramer Ruggiu (VUB), Katarina Miljkovic (Curtin University), Olivier Namur (KULeuven), Gabriel Pinto (BINS), Trygve Prestgard (VUB), Maxwell Thiemens (VUB), Maria Valdes (the Field Museum), and Flore Van Maldegheem, (UCopenhagen)—and also our many Belgian colleagues who greatly helped us to improve the conference experience: Marleen De Ceukelaire, Thierry Leduc, Thomas Goovaerts, and Karine Triquenaux. We also thank Hasnaa Aoudjehanne Chennaoui who chaired the scientific program committee, composed of Maizey Benner (UArizona), Bernard Charlier (ULiège), Max Collinet (UNamur), Luigi Folco (UPisa), Jérôme Gattacecca (CEREGE), Richard Greenwood (Open University), Pierre Haenecour (UArizona), Philipp Heck (Field Museum), Ming-Chang Liu (LLNL), Takachi Mikouchi (UTokyo), Olivier Namur (KULeuven), Lidia Pittarello (Naturhistorisches Museum Wien), Uwe Reimold (UBrasilia), Maria Schönbächler (ETH Zurich), Anuj Singh, (UAllahabad), Haoxuan Sun (IPGP), and Akira Yamaguchi (NIPR). Pierre Haenecour chaired the travel award committee that provided travel grants to 67 attendees to participate in Brussels, for a total of US \$84,000. This was made possible thanks to the support of the Barringer Crater Company, The Brian Mason Fund, Elsevier, the Macovich Meteorite Collection, the Maine Mineral and Gem Museum, NASA, the O. Richard Norton Fund, The Planetary Studies Foundation, and of course, the Meteoritical Society early career and TIM travel awards. Renée Dotson and Jamie Shumbera from LPI have been of invaluable help on the abstract submission and program design. Our sponsors, FWO and FNRS, CAMECA instruments, Nu Instruments, and Thermo Scientific, are greatly acknowledged for their financial support. The Meteoritical Society Council is thanked for its trust and guidance. Finally, we would like to sincerely thank the beating heart of the conference—the large number of master students, PhD students, and postdoctoral researchers from all Belgian universities who volunteered to make this conference possible.

Vinciane Debaille and Steven Goderis

Co-chairs of the MetSoc 2024 Local Organization Committee

SOCIETY AWARD WINNERS

The Society gives five major awards each year. For more information on individual awards, please see the Call for Nominations and the Society webpage. Congratulations to the highly deserving awardees, and thank you to all our members who took the time to nominate our colleagues for consideration and who serve on award committees.



The Leonard Medal is given to individuals who have made outstanding original contributions to the science of meteoritics or closely allied fields. The Meteoritical Society presents the 2024 Leonard Medal to **Monica Grady** for her major contributions to understanding the light element geochemistry, abundances, and origins of extraterrestrial materials such as presolar and

solar carbonaceous phases in chondrites, which contribute to the volatile inventories of the terrestrial planets and the evolution of Mars. Full citation: <https://doi.org/10.1111/maps.14230>.



The Barringer Medal is given for outstanding work in the field of impact cratering and/or work that has led to a better understanding of impact phenomena. The Meteoritical Society presents the 2024 Barringer Medal to **John Spray** for his highly innovative theoretical and applied research on a range of topics, from high strain rate deformation of crustal rocks to meteorites and regolith formation, and for which he has combined field, analytical, and experimental aspects. Full citation: <https://doi.org/10.1111/maps.14232>.



The Nier Prize is given for significant research in the field of meteoritics and closely related fields by an early career scientist under the age of 35 or whose PhD was awarded <7 years ago. The Meteoritical Society presents the 2024 Alfred O. Nier Prize for a distinguished young scientist to **Elishevah van Kooten** for her broad-based perspective that uses well-chosen observations and a team approach to constrain longstanding puzzles about the origins of the first planetesimals, and for developing advanced new high-precision analytical methods in two different isotopic systems. Full citation: <https://doi.org/10.1111/maps.14226>.



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. The Meteoritical Society presents the 2024 Service Award to **Richard Greenwood** for his extensive education and public outreach work, and his service to the Society and community, and on his large contribution to classification and curation of extraterrestrial samples. Full citation: <https://doi.org/10.1111/maps.14231>.



The GORDON MCKAY AWARD is given each year to the student who gives the best oral presentation at the annual meeting of the society. The award honors the memory of Gordon A. McKay and is supported by the McKay Fund, which was established in 2008 as a part of the Meteoritical Society's endowment. The McKay Award for the 86th Annual Meeting of the Meteoritical Society in Brussels goes to **Daniel Sheikh** (Portland State University, USA) for the talk entitled "Application of Electron Backscatter Diffraction (EBSD) to Investigate the Petrogenesis and Shock Deformation History of a Pink Spinel" and to **Leah Shteynman** (Arizona State University, USA) for the talk entitled "Zircon to Reidite and Back Again: Using Nano-Scale Fabrics to Constrain Transformation Mechanisms." The award comes with a prize of US \$1,000 and a certificate.



The WILEY-BLACKWELL AWARD is presented for outstanding presentations by students at the annual meeting of the society. Wiley-Blackwell are the publishers of *Meteoritics and Planetary Science* and, for the 86th meeting in Brussels, they sponsored five awards of US \$500 each. The winners for 2024 include **Sian Boulty** (Royal Holloway,



Sian Boulty



Shiori Inada



Moshammat Mijum



Anna Musolino



Anna Zappatini

University of London, UK) for the presentation "NIMROD UK Radar Data Use in Tracking and Locating UK Meteorites Falls," **Shiori Inada** (University of Tokyo, Japan) for the presentation "Theory of Kinetic Isotope Fractionation During Evaporation," **Moshammat Mijum** (Purdue University, USA) for the presentation "Effects of Subsample Heterogeneity and Diffusion Kinetics on the Cosmic Ray Exposure Ages of Enstatite (E) Chondrites," **Anna Musolino** (UNIPI, Italy and CEREGE, France) for the presentation "Evaluating the Use of Decomposed Zircons for the Identification of Impact and Airburst Glasses," and **Anna Zappatini** (University of Bern, Switzerland) for the presentation "Al-Khadhaf: A Camera-Observed H5-6 Fall from Oman."

CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the Society's awards. Nominations should be sent to the society secretary at (metsosec@gmail.com) by 15 January (31 January for the Pellas-Ryder Award and the Service Award). For more information and details on how to submit a nomination for any of these awards, please see the latest Newsletter at the Society website or email the secretary.

UPDATED ANNUAL MEETING CALENDAR

2025	(87 th Annual Meeting) 14–18 July Perth, Australia
2026	(88 th Annual Meeting) 9–14 August; Frankfurt, Germany (EU)
2027	(89 th Annual Meeting) 26–30 July Flagstaff, Arizona, USA
2028	(90 th Annual Meeting) 30 July–4 August (tentative); Antofagasta, Chile

RENEW YOUR MEMBERSHIP NOW!

Please renew by **March 31, 2025**; after that date, a \$15 late fee will be assessed. You can renew online at: <https://meteoritical.org/society/membership>.