



**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.