



# Meteoritical Society

<http://meteoriticalsociety.org>

## 2019 ANNUAL MEETING REPORT

The 82<sup>nd</sup> Annual Meeting of the Meteoritical Society (MetSoc) was held 7–12 July 2019 in Sapporo (Japan). The conference was hosted in Hokkaido University's Sapporo campus. There were 418 participants from 21 different countries registered for the meeting, including 287 professionals (scientists + exhibitors), 118 student participants, and 13 guests. A total of 289 registrants were MetSoc members. The MetSoc exhibition hosted booths for Japan's National Institute of Polar Research (NIPR), the Tokyo Institute of Technology's Earth–Life Science Institute (ELSI), the Japan Agency for Marine–Earth Science and Technology (JAMSTEC), and the analytical instrument manufacturers of JEOL, CAMECA, Hitachi High-Tech, Oxford Instruments, and the Isotope Image Laboratory of Hokkaido University. In total, 509 abstracts were accepted for 272 oral, 235 poster and 2 print-only presentations. Oral presentations were scheduled in three parallel sessions from Monday (8 July) to Friday (12 July).

A total of 45 travel awards were 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, the Meteoritical Society's Endowment and Travel for International Members Fund, Maine Mineral and Gem Museum, O. Richard Norton, Darryl Pitt/Macovich Collection, National Institute of Polar Research (NIPR), and Japan Aerospace Exploration Agency (JAXA).

The conference kicked off on Sunday (7 July) with the pre-conference workshop entitled Workshop: Minerals, Organics, and Water in 3-D View, which was convened by Drs. Akira Tsuchiyama and Aki Takigawa at the University Conference Hall. This was followed by the Welcome Reception at the Hokkaido University Museum.

The official opening ceremony took place on Monday (8 July) with greetings by Prof. Masanori Kasahara, Deputy President of Hokkaido University and Mr. Koyu Kishi, President of the Sapporo International Communication Plaza Foundation. The opening ceremony was followed by the Special Annual Lecture, "Tsunami Geology and Geomorphology: Extreme Events in the Earth's and Human Histories", which was sponsored by the Meteoritical Society and given by Prof. Kazuhisa Goto of the Department of Earth and Planetary Science, University of Tokyo. The Annual Barringer Invitational Lecture on Monday evening was "The Search for Antarctic Meteorites – Fifty Years from the Discovery of the Yamato Meteorites" and was given by Prof. Kazuyuki Shiraishi of the National Institute of Polar Research. The lecture was open to the public and had a simultaneous translation to Japanese by student member Ms. Kana Ishimaru. This talk attracted a large audience.

The scientific program covered 20 topics. These were organized under the themes of achondrites, carbonaceous chondrites, non-carbonaceous chondrites, chondrules, methods and analytical technique, volatiles, solar system chronology, impacts, Mars, geochemistry of lunar meteorites, organic matter, pre-solar grains, space weathering, differentiated bodies, and nebular dynamics. The program also included the special sessions "Ryugu, Bennu, and Small Bodies", "Analysis of Lunar Samples: A Celebration of 50 Years Since Apollo 11", and "50 Years of Japanese Antarctic Meteorites, Allende and Murchison".

Prof. Hisayoshi Yurimoto, the awardee of the Leonard Medal, gave his lecture on Wednesday morning. Several excursions were conducted to enjoy the nature and culture of Hokkaido on Wednesday afternoon, city bus tour, city walk with sushi lunch, harbor city and stained glass museum (Otaru), whiskey distillery (Yoichi), volcano and lake in Shikotsu area, the Hokkaido Museum, and the Arte Piazza Bibai–Kan Yasuda sculpture park.

The conference banquet took place on Wednesday evening at the Sapporo Park Hotel inside the Nakajima Koen Park, close to downtown Sapporo. Participants enjoyed buffet-style Hokkaido food, Yosakoi Soran dance, and Taiko drumming.

Both poster sessions on Tuesday and Thursday evenings were very well attended, and hopefully many good discussions were had over drinks at the posters.

The conference concluded on Friday afternoon (12 July) with a Farewell Party, where participants met each other at Faculty House Trillium in the Hokkaido University Sapporo campus.

A post-conference excursion to Horoman Peridotite Complex (ophiolites) and Mt. Apoi Geopark was organized for 13–14 July. Dr. Kiyooki Niida, Director of GeoLab Mt. Apoi, led the tour, and 14 participants enjoyed observing various peridotite rocks and the plate boundary between the North American and Eurasian plates, which formed during a tectonic convergence approximately 13 million years ago.

The conference program and abstract volume can be accessed on the website of the Lunar and Planetary Institute: [https://www.hou.usra.edu/meetings/metsoc2019/pdf/metsoc2019\\_program.htm](https://www.hou.usra.edu/meetings/metsoc2019/pdf/metsoc2019_program.htm), and on the dedicated conference website: <https://www.metsoc19-sapporo.com/>.

We would like to thank the numerous colleagues, students, and volunteers whose tireless efforts made it all possible. We also thank the Office for International Academic Support, Faculty of Science, Hokkaido University, which helped participants with visas. We want to emphasize the great 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 session conveners, student assistants, guides on conference tours and across a multitude of other essential functions.

**Hisayoshi Yurimoto**

MetSoc 2019 Chair of the Local Organizing Committee

## SOCIETY AWARD WINNERS

The society gives four major awards each year. For more information on individual awards, see the Call for Nominations section of the society's webpage.



The LEONARD MEDAL is the society's highest and oldest award and is given to individuals who have made outstanding original contributions to the science of meteoritics or closely allied fields. It is named for Frederick C. Leonard who was a founder and the first President of the Meteoritical Society. The 2019 awardee is **Hisayoshi Yurimoto**, for his fundamental contributions to understanding the micro-distribution of oxygen isotopes in the proto-solar cloud, proto-planetary disk, and in samples returned from asteroids. The citation was given by Sasha Krot.



The BARRINGER MEDAL AND AWARD are sponsored by the Barringer Crater Company in memory of D. Moreau Barringer Sr and his son, D. Moreau Barringer Jr. The award is given for outstanding work in the field of impact cratering. This year, the Barringer Medal and Award is given to **Mark Cintala** (NASA Johnson Space Center, Houston, Texas, USA) for his fundamental contributions to our understanding of hypervelocity impacts as a major geological process throughout the solar system. The citation was written by Fred Hörz and Jennifer Anderson, and delivered by Munir Humayun. The award was accepted on behalf of Mark by Lindsay Keller.



The NIER PRIZE is awarded to a young scientist in the field of meteoritics. The 2019 prize goes to **Aki Takigawa** of Kyoto University (Japan). Aki receives this award for her significant contributions to our understanding of the refractory dust in stars and in the early solar system through the synthesis of multiple analytical methods. The citation was given by Rhonda Stroud.



The SERVICE AWARD is given to a person who significantly advances the goals of the society. The 2019 award goes to **Rainer Bartoschewitz** (Bartoschewitz Meteorite Lab, Germany), not only for his effort in advancing the goals of the society but also for the far-reaching impact of his work. His contribution to the society's goals has been accomplished through his collection of meteorites and extensive outreach activities related to meteorites and planetary science. The citation was written by Klaus Becker and delivered by Jisun Park.



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 82<sup>nd</sup> Annual Meeting of the Meteoritical Society in Sapporo goes to **Dara L. Laczniak** (Purdue University, USA) for her talk in Sapporo entitled

“Coordinated Analyses of Ion Irradiated Carbonaceous Chondrites.” 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 82<sup>nd</sup> meeting in Sapporo, they sponsored five awards of US\$500 each. **Laura Bouvier** (University of Copenhagen, Copenhagen, Denmark) for her presentation “Probing Magma Ocean Crystallization in Rocky Planets using Zirconium Isotopes – Preliminary Results from Ancient Zircons from Earth and Mars”. **Cécile Deligny** (Centre de Recherches Petrographiques et Geochimiques, CNRS-UL, Nancy, France) for her presentation “Origin and Timing of Volatile (N, H) Delivery to the Angrite Parent Body”. **Marina Martínez** (University of New Mexico, Albuquerque, New Mexico, USA) for her presentation “Smooth Rims in Queen Alexandra (Range (QUE) 99177: The Earliest Stages of Fluid–Rock Interactions in the Most Pristine CR Chondrite”. **Robbin Visser** (Freie Universität Berlin, Berlin, Germany) for his presentation “Manganese–Chromium Ages of Carbonates in Aqueously-Altered Carbonaceous Chondrites and Clasts”. **Ke Zhu** (Institut de Physique du Globe de Paris, Paris, France) for his presentation “Chromium Isotopic Constraints on the Origin of the Ureilite Parent Body”.



## CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the society's awards. Nominations should be sent to Secretary Munir Humayun (metsocsec@gmail.com) by 15 January (or 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's website, or e-mail the secretary.

## ANNUAL MEETING SCHEDULE

2020 (83<sup>rd</sup>) 9–14 August, Glasgow (Scotland)

2021 (84<sup>th</sup>) 14–21 August, Chicago (Illinois, USA)

2022 (85<sup>th</sup>) Dates to be determined, Perth (Australia)

2023 (86<sup>th</sup>) Dates to be determined, Brussels (Belgium)

## RENEW YOUR MEMBERSHIP NOW!

Please renew by 31 March 2020; after that date, a \$15 late fee will be assessed. You can renew online at: <http://metsoc.meteoritical-society.net>.