

Meteoritical Society

http://meteoriticalsociety.org

2022 ANNUAL MEETING REPORT

The 85th Annual Meeting of the Meteoritical Society (Met Soc) was held in August 2022 in Glasgow, Scotland (UK) as a fully hybrid meeting. The in-person meeting venue was at the Scottish Event Campus in central Glasgow, overlooking the River Clyde. Social events were also hosted within the Hunterian Museum at the University of Glasgow, the City Chambers, and the Kelvingrove Museum. Despite ongoing COVID-19 pandemic-related travel restrictions, in-person participants numbered 442 (including press, exhibitors, and accompanying persons). There were 89 virtual attendees, resulting in a 83% to 17% split for in-person versus virtual attendance—531 participants in total. Virtual talks were given live, or prerecorded where internet restrictions prevented live streaming. All in-person talks were live-streamed on the virtual platform, and all talks were recorded for online viewing by registered participants for one month after the meeting. All posters were also uploaded to the virtual platform, and the option for virtual or live poster presentations was available—virtual and live poster sessions were staggered to avoid clashes. This platform was designed to enable participants to view all presentations of interest, even if they were held in parallel. The hybrid meeting style provided access for those who were not able to travel because of the pandemic, or those who didn't have the financial means to attend in person. All participants were encouraged to wear masks within the session rooms at the meeting venue except when presenting or eating/drinking. Lateral flow COVID-19 test kits were available at all times during the meeting via the reception desk.

The program included two parallel oral sessions, and staggered virtual and in-person poster sessions on the Tuesday and Thursday evenings. The Barringer Lecture was given by Elliot Sefton-Nash from the European Space Agency, and was entitled "Early Mars: A world record." Three pre-conference workshops were organized: Workshop 1: Fireballs and their detection; Workshop 2: Back to the Future -Major findings in the field of impact cratering and unresolved issues; and Workshop 3: Atom probe tomography and correlative microscopy of meteorites and returned planetary materials.



Meteoritical Society Past President

Mini Wadhwa, President Brigitte

Zanda, and Vice-President Nancy

ites and returned planetary materials. Chabot address the membership at the annual banquet.

included Lydia Hallis, Luke Daly, Sammy Griffin, Annemarie Pickersgill, Aine O'Brien, and Evangelos Christou from the University of Glasgow, as well as Paul Savage and Robert Steele from the University of St. Andrews and Caroline Smith from the Natural History Museum, London. Martin Lee (University of Glasgow) was the chair of the scientific organizing committee, which included local and international committee members. The travel award committee was chaired by Sammy Griffin (University of Glasgow). Linda Garcia (LPI) and her team provided outstanding support for organizing this meeting. The meeting organization was very challenging, having been cancelled in 2020, and with the continuing uncertainty and increased costs resulting from pandemic-related uncertainties in 2021 and 2022. The author would like to thank all who were involved for their hard work and persistence, and the sponsors and exhibitors (Cameca, Nu, Oxford Instruments, Purdue University, and Thermo-Fisher Scientific) for their financial support. We would also like to thank all those attendees who took the time to fill in the post-conference survey, feedback from which will help improve future MetSoc meetings.

Lydia Hallis, Chair of the MetSoc 2022 Local Organization Committee

SOCIETY AWARD WINNERS

The Society now gives five major awards each year. For more information on individual awards, please see the Call for Nominations and the Society webpage.

LEONARD MEDAL, the Society's highest and oldest award, 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 Society. The 2022 winner is **Kevin McKeegan** (University of California, Los Angeles, USA). The Meteoritical Society recognizes Kevin with its Leonard Medal for his work on "the



microanalysis of isotopes including the discovery of deuterium enrichments in interplanetary dust particles (IDPs), oxygen isotopes in the sources of Ca-, Al-rich inclusions (CAIs), discovery of extinct Be-10 in CAIs implying particle irradiation in the Solar System, the oxygen isotope composition of the first CAI fragment from Comet Wild 2, and the measurement of the oxygen isotope composition of the Sun from the NASA Genesis Mission obtained by developing the new MegaSIMS instrument." The citation was given by Marc Chaussidon.

BARRINGER MEDAL AND AWARD, sponsored by the Barringer Crater Company, were created 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 Award is given to **Gareth Collins** (Imperial College, London) and **Kai Wunnemann** (Freie Universität Berlin; Museum für Naturkunde) as the first-ever joint



award for their collaborative development of the iSALE hydrocode and their influential scientific work in understanding and simulating the physics of impact crater formation. The citation was given by Thomas Kenkmann.

NIER PRIZE: This year's winner of the Nier Prize for young scientists in the field of Meteoritics is **Arya Udry** (University of Nevada, Las Vegas, USA). Arya receives this award for her "significant contributions in the petrology and chemistry of Martian meteorites, for advancing our understanding of the crystallization sequences of Martian magmas and for being an effective public communicator of the science." The citation was given by Hap McSween.



SERVICE AWARD: Randy Korotev of Washington University in St Louis (USA) is the winner of this year's Meteoritical Society Service Award. Randy receives this award "for his outstanding contributions to the classification of lunar meteorites, for his creation and operation of the, go-to, website for lunar meteorites and literature on lunar science, and for his extensive public outreach and education efforts in meteorites." The citation was given by Ryan Zeigler.



The **GORDON MCKAY AWARD** and **WILEY-BLACKWELL AWARDS** from the 2022 meeting in Glasgow will be announced in a later issue of *Elements*.

SOCIETY NEWS

IN MEMORIAM - ERIN L. WALTON (1978-2022)

Erin Lindsey Walton Hauck passed away on 21 September 2022 at the age of 44 following a battle with cancer. She was born on 4 August 1978 in Fredericton, New Brunswick, Canada. Erin grew up with a love and respect for the natural world that would continue all her life. During her undergraduate studies at the University of New Brunswick (UNB), she discovered her passion for geology and the cosmos, which led her to mineralogy, meteorites, and impact processes.

Characterizing the complex shock effects produced during impact events was the overarching theme of her research. Following her documentation of the Benton LL6 chondrite for her undergraduate

Honours thesis (the only meteorite known from Atlantic Canada), she continued to her PhD with John Spray at the Planetary and Space Science Centre, UNB. This involved a study of the effects of shock in Martian meteorites-a theme that would be central to her scientific contributions. Her dissertation was nominated by UNB as one of the best in Canada, and she was recognized as one of the brightest university researchers by MacLean's Magazine in 2004. In 2005, she was competitively awarded an NSERC Postdoctoral Fellow position, which she took up in the Department of Earth and Atmospheric Sciences at the University of Alberta. In 2007, she secured a Space Science Fellowship from the Canadian Space Agency, which she used to continue her position at the University of Alberta until 2009. At Alberta, she took advantage of experimental petrology facilities—and more microbeam methods-to explore and constrain the crystallization conditions of impact melt pockets in Martian meteorites. Working in collaboration with Chris Herd, she published a series of papers that provided insights into how impact melt pockets formed, as well as the mechanics of implantation of the Martian atmosphere.

In 2009, she secured a faculty position at Grant MacEwan College (now MacEwan University), where she quickly became known for being an excellent instructor. In her role, she developed/co-developed 10 new courses for the Physical Sciences degree program. All this



was achieved while maintaining a full teaching load, securing funding for a Raman instrument, sustaining an active, NSERC-funded research program, and supervising some 20 student projects! Most of these were undergraduates, but also included several Masters students, co-supervised with Chris Herd at the University of Alberta, or with Cliff Shaw and John Spray at UNB, thanks to her adjunct professor status at both institutions. She was actively co-supervising some of these student projects as recently as August 2022.

Erin's research into shock effects expanded to include other meteorite types, and terrestrial impact structures, including the Steen River (Alberta) impact struc-

ture, which had not been extensively studied since the 1970s. In 2019, she was awarded a MacEwan University Board of Governors Research Chair in recognition of her research. Erin leaves behind a body of work in the peer-reviewed literature that lays the groundwork for countless future research projects, and will continue to inform and inspire future research.

Erin had an outgoing and endearing personality. She played key roles in the organization of the 76th Annual Met Soc meeting in Edmonton, Canada, in 2013, including ensuring that social events were a good time! She was a joy to collaborate and interact with. She cared about her students and was a much-appreciated mentor and role model. We will miss her contributions to science and her warm and friendly presence. VERSION OF HERD ET AL. (2022), HTTPS://DOI.ORG/10.1111/ MAPS.13928, ADAPTED FOR *ELEMENTS*.

Christopher Herd¹, John Spray², Tom Sharp³

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CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the Society's awards. Nominations should be sent to the society secretary (metsocsec@gmail. com) by January 15 (January 31 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

2023	(86 th Annual Meeting)	14–18 August; Los Angeles, California, USA.
2024	(87 th Annual Meeting)	28 July–2 August; Brussels, Belgium (EU).
2025	(88 th Annual Meeting)	July TBD; Perth, Australia.
2026	(89 th Annual Meeting)	July/August TBD; Frankfurt, Germany (EU).

RENEW YOUR MEMBERSHIP NOW!

Please renew by March 31, 2023; after that date, a \$15 late fee will be assessed. You can renew online at https://meteoritical.org/society/membership.