

2017 MSA AWARDEES

At its Annual Meeting, the Mineralogical Society of America presented its main awards.



The **Roebling Medal** to **Edward M. Stolper**, California Institute of Technology (Pasadena California, USA) in recognition of his work on upper mantle and crustal processes on the Earth, Mars and in meteorite parent bodies. Dr. Stolper developed the sandwich technique, which enables phase relations in the melting regions of the upper mantle to be properly understood. This was a simple idea that showed his fundamental grasp of phase equilibria and thermodynamics. Stolper developed quantitative models for the solution of water and other volatiles in silicate melts. His model of melting on asteroid Vesta has guided most succeeding work on the origins and evolution of eucrites. With Marc Hirschmann, he introduced the idea that partial melts of recycled crust are components of mid-ocean ridge basalt (MORB). His experiments test his models or hypotheses, which are based in fundamental chemistry and physics. His work is fundamental to our understanding of petrologic processes, and he has changed the way petrologic experiments are done.



The Dana Medal is awarded to **Thomas W. Sisson**, US Geological Survey (Menlo Park, California, USA) in recognition of his research contributions, published works, and his role as a synthesizer and advocate for linking volcanic with magmatic processes and field with laboratory studies. Specifically, Sisson is recognized for his high-temperature, high-pressure experimental and geochemical studies aimed at addressing: (1) how magmas formed by the melting of diverse source rocks; (2) the depths at which magmas are stored as they migrate through the crust; (3) how volatiles affect magma ascent rates, initiation of volcanic eruptions and eruption styles. His geologic mapping has led to well constrained geochronologic, experimental, and geochemical studies of melt generation and transport in arcs and interpretive histories and hazards assessment of volcanic eruptions.



The MSA Award to **Dustin Trail**, University of Rochester (New York, USA) is in recognition of his contributions to our understanding of early Earth environments and its suitability for life through his path-breaking development of new geochemical tools applied to Earth's oldest materials. His main interest involves study of the chemical and isotopic composition of accessory minerals in the crust through

laboratory experiments and measurements of natural samples, with emphasis on the early Earth. His research interests include the environment(s) of early Earth, the conditions suitable for the origin of life, the redox state and evolution of magmas and fluids in the crust, and exploring how traditional and non-traditional isotope measurements in accessory minerals can be 'translated' to physical and chemical processes.



The Distinguished Public Service Medal is awarded to **David W. Mogk**, Montana State University (USA) in recognition of developing and supporting pedagogical growth in the geosciences. Dr. Mogk has conceived, funded, organized, co-led, and supported On the Cutting Edge Geoscience Faculty Professional Development Workshops for a variety of geoscience disciplines. These workshops have brought together educators from a wide variety of backgrounds and

positions to learn and share pedagogical experiences, strategies, and tools. Mogk has been a key player in the building and development of the mineralogy, petrology, and geochemistry portions of the Science Education Resource Center (SERC). This site offers a collection of teaching ideas, activities, documents, diagrams, and advice that have been tried and reviewed by other teachers. He has been proactive and insistent on both getting teachers to share their pedagogical ideas and products and also in reminding the mineralogy community of the resources available at SERC.

AWARD NOMINATIONS

Nominations Sought for 2019 Awards

Nominations must be received by 1 June 2018

The **Roebling Medal** (2019) is MSA's highest award and is given for eminence as represented by outstanding published original research in mineralogy.

The **Dana Medal** (2019) recognizes continued outstanding scientific contributions through original research in the mineralogical sciences by an individual in the middle of their career.

Mineralogical Society of America Award (2019) is given for outstanding published contribution(s) prior to 35th birthday or within 7 years of the PhD.

The **Distinguished Public Service Medal** (2019) is presented to an individual who has provided outstanding contributions to public policy and awareness about mineralogical topics through science.

Society Fellowship is the recognition of a member's significant scientific contributions. Nomination is undertaken by one member, with two members acting as cosponsors. Form required, contact committee chair or MSA home page.

Submission requirements and procedures are on MSA's home page:
<http://www.minsocam.org/>

RESEARCH GRANTS

The Mineralogical Society of America
2018 Grants for

RESEARCH IN CRYSTALLOGRAPHY

*from the Edward H. Kraus Crystallographic Research Fund
with contributions from MSA membership and friends*

STUDENT RESEARCH IN MINERALOGY AND PETROLOGY

from an endowment created by MSA members



Selection is based on the qualifications of the applicant; the quality, innovativeness, and scientific significance of the proposed research; and the likelihood of success of the project. There will be up to three US\$5,000 grants, with the restriction that the money be used in support of research.

Application instructions and online submission are available on the MSA website, <http://www.minsocam.org>. Completed applications must be submitted by 1 March 2018.