Mineralogical Society of the UK and Ireland

www.minersoc.org

BIRTHDAY CELEBRATIONS APPROACHING...

Mineralogical Society at 150: Past Discoveries and Future Frontiers

23rd–25th June 2026, The University of Manchester, UK

The latest list of our invited speakers for our anniversary celebration is listed below:

- M. Rumsey (Natural History Museum, London)
- Rosa Maria di Maggio (Forensic Geoscience, Italy)
- Elizabeth Watkin (Edith Cowan University, Australia)
- Carolyn Pearce (Pacific Northwest National Laboratory, USA)
- Jeffrey Paulo H. Perez (GFZ Helmholtz Centre for Geosciences, Germany)
- David Manning (Newcastle University, UK)
- Laura Bastianini (Heriot Watt University, UK)
- M. Hochella (Virginia Tech, USA)
- J. Cosmidis (University of Oxford, UK)
- Pierre Josso (BGS Critical Metals Intelligence Centre, UK)
- Geraldine Tchimbali (Pensana Ltd, Angola)
- Katie McFall (University College London)
- Thomas Breithaupt (University Cambridge, UK)
- Jennifer Jackson (Caltech, USA)
- Hannah Hughes (Camborne School of Mines, UK)
- Oliver Higgins (St. Andrews University, UK)
- Alan Hastie (University of Edinburgh, UK)
- Emma Tomlinson (Trinity College Dublin)
- Pierre Le Pape (Sorbonne Université/CNRS/MNHN/IRD, France)
- Martin Whitehouse (Naturhistoriska Riksmuseet, Sweden)
- Robert Hazen (Carnegie Science, USA)

Our 2025 medallists will also present their work at the conference:

- Andrew Berry, Australia National University, Canberra (Neumann Medal)
- Barb Dutrow, Louisiana State University, USA (Collins Medal)
- Lin Ma, University of Manchester, UK (Max Hey Medal)
- James Byrne, Bristol University, UK (Howie Best Paper Award)

Here are a couple of titles just to tickle your tastebuds:

Can engineered minerals significantly slow global warming? An example where this could be the case Hochella Jr., M.F. and Babakhani, P.

Volatiles and the many types of melt: Why critical metals aren't always where expected in ore deposits McFall, K.A., McDonald, I., Hanley, J.J., Kerr, M., Yudovskaya, M.A., Kinnaird, J., and Tattitch, B.

Mechanistic Roles of Minerals in Radionuclide Behaviour at the Department of Energy's Hanford Site Pearce, C.I., Jay LaVerne, Hilary Emerson, Amanda Lawter, James Szecsody, Rob Mackley, Xin Zhang, Zheming Wang, Kevin Rosso, Gregory Schenter, Linda Young, Thomas Orlando, Aurora Clark, Xiaosong Li, and Lynn Francesconi

Towards growing and engineering minerals using bacteria: high-throughput approaches to decoding biomineralization Cosmidis, J., Stigliano, L., and Rehmanji, M.

Tracing Crime through Minerals: The Role of Mineralogy in Forensic Investigations Di Maggio, R.M.

Redox-active iron (nano)minerals and their impact on contaminant behaviour in natural and engineered environments Perez, J.P.H.

Analysis of arsenic speciation in contaminated samples: a multi-scale approach from standard XAS to advanced X-Ray spectroscopies Pierre Le Pape, Marc Blanchard, Georges Ona-Nguema, Delphine Cabaret, Karim Benzerara, Amélie Juhin, Mathieu Chassé, Benoît Baptiste, Guillaume Morin, Fabienne Battaglia-Brunet, Catherine Juolian, Lidia Fernandez-Rojo, Eléonore Resongles, Marina Héry, Corinne Casiot, Gautier Landrot, Rachid Belkhou, and Jean-Pascal Rueff

MINERALOGICAL SOCIETY AWARDS – NOMINATE NOW

Neumann Medal

The Neumann Medal will be awarded annually to a mid-career scientist who has made an outstanding contribution to applied mineralogy, clay mineralogy, environmental mineralogy, geochemistry, geomicrobiology, metamorphism, mineral physics, or volcanology and magmatic studies, reflecting the diverse and worldwide interests and membership of the Society. Evidence of such excellence should be in the form of the impact of the applicant's/nominee's work, their publications, service to industry, outreach/promotion of science, leadership or other service to the community, teaching, and work to improve equality, diversity, and inclusivity in our science.' Nominees/applicants do not have to be Members of the Mineralogical Society or nationals of the UK or Ireland.

Details at: https://www.minersoc.org/neumann.html.

Collins Medal

The Collins medal will be awarded annually to a scientist who, during a long and active career, has made an outstanding contribution in applied mineralogy, clay mineralogy, environmental mineralogy, geochemistry, geomicrobiology, metamorphism, mineral physics, or volcanology and magmatic studies, reflecting the diverse and worldwide interests and membership of the Society. Evidence of such excellence should be in the form of the impact of the applicant's/nominee's work, their publications, service to industry, outreach/promotion of science, leadership or other service to the community, teaching, and work to improve equality, diversity, and inclusivity in our science.

Details at: https://www.minersoc.org/collins-medal.html.

Max Hey Medal

The Max Hey Medal will be awarded annually to a scientist who is in the early stage of their career. Its purpose is to recognise existing and ongoing excellence in applied mineralogy, clay mineralogy, environmental mineralogy, geochemistry, geomicrobiology, metamorphism, mineral physics, or volcanology and magmatic studies, reflecting the diverse and worldwide interests and membership of the Society. Evidence of such excellence should be in the form of the impact of the applicant's/nominee's work, their publications, service to industry, outreach/promotion of science, leadership or other service to the community, teaching, and work to improve equality, diversity, and inclusivity in our science.

Details at: https://www.minersoc.org/hey-medal.html.

And new this year...

Guppy Medal

The award aims to showcase the vital role of technicians in enabling and delivering high-quality research. Technicians and experimental officers form a key part of almost all research teams delivering a wide variety of technical and analytical expertise. This award focuses specifically on the contributions of technicians in the fields of mineralogy and Earth sciences, and aims to showcase the leading contributions of individuals and teams in the delivery of world class research and development.

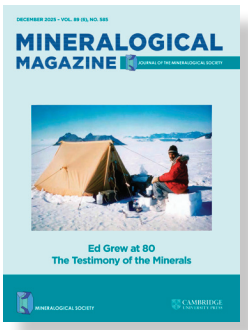
In addition to individuals from universities and research institutes, this award is also open to technical teams, as work from technicians in labs is often collaborative. This would particularly benefit the collaborative team work at national facilities. Nominations are open for individuals in even years, e.g., 2026 and to teams in odd years, i.e. the following year, 2027.

The awards will be presented the following year and consist of a certificate and a plaque to be awarded at an appropriate scientific event of the Society.

Details at: https://www.minersoc.org/guppy-award.html.

The deadline for receipt of nominations for all awards is **17th April 2026.**

NEW CONTENT IN *MINERALOGICAL MAGAZINE*



IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) – Newsletter 88 Ferdinando Bosi, Frédéric Hatert, Marco Pasero, Stuart J. Mills

The future of mineralogical crystallography: Expanding horizons in the 21st century – 150 Years of the Mineralogical Society: Past Discoveries and Future Frontiers Luca Bindi, Robert M. Hazen

Mantle sources of kamafugitic magmas: insights from partial melting experiments on phlogopite clinopyroxenite and clinopyroxene glimmerite Francesca Innocenzi, Isra S. Ezad, Sara Ronca, Samuele Agostini, Michele Lustrino, Svyatoslav Shcheka, Stephen F. Foley

Extending the mineralogy of U^{6+} (IV): Uranyl phosphate sheet of novel topology in the crystal structure of ranunculite Jakub Plášil, Nathan Steciuk, Gwladys Steciuk, Jiří Sejkora, Markéta Jarošová, Jan Rohlíček, Simon Philippo, Ivan Němec, Alexander Matthies

Wiperamingaite, $NaCaFe^{3+}Al(PO_4)F_5(OH)\cdot H_2O$, a new mineral from Wiperaminga Hill, South Australia, Australia Peter Elliott, Anthony R. Kampf

Extending the mineralogy of U^{6+} (III): Pendevilleite-(Y), a new uranyl carbonate mineral from Kamoto-East open-cut, Democratic Republic of Congo Jakub Plášil, Gwladys Steciuk, Radek Škoda, Simon Philippo, Mael Guennou

Determination of local geometrical distortions in an ordered omphacite under high pressure Lisa Baratelli, Marco Merlini, Fabrizio Nestola, Jacopo Nava, Boby Joseph, Mauro Prencipe, Fernando Cámara

Telescoped transition from trellis to silicate-mottled magnetite records deep shear metamorphism in the IOCG deposit at Jatobá, Carajás, Brazil Yuri Tatiana Campo Rodriguez, Cristiana L. Ciobanu, Nigel J. Cook, Maria Emilia Schutesky, Kathy Ehrig, Ashley Slattery, Sarah Gilbert, Samuel A. King

'Basket-weave' textures formed during cooling of natural bornite: a HAADF STEM study Samuel A. King, Cristiana L. Ciobanu, Nigel J. Cook, Ashley D. Slattery, Kathy Ehrig, Jie Yao, Yuri T. Campo Rodriguez

Rhombohedral $K_2Ca_2(CO_3)_3$, a new pyro-biophase formed in the ash of the desert spoon (Dasylirion wheeleri) from the Sonoran Desert Laurence A.J. Garvie

NEW CONTENT IN *CLAY MINERALS*

Chlorhexidine acetate adsorption onto halloysite nanotubes from liquid media and in vitro antimicrobial activity Olga V. Alekseeva, Andrew Noskov, Daria N. Yashkova, Alexander V. Agafonov

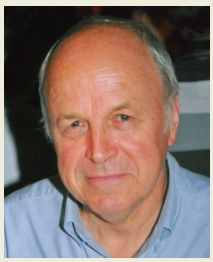
Efficient degradation of tetracycline via iron(II,III) oxide nanoparticle-activated hydrogen peroxide: mechanisms and performance Xu Cao, Kunlei Wang, Fei Long, Zhanli Chen, Ping Zhang, Bo Zeng, Longyong Wu

Investigation of iron/bentonite interaction based on powdered mixtures Stephan Kaufhold, Kristian Ufer, Reiner Dohrmann, Franz Renz, René Lucka, Maximilian Seydi Kilic, Sven Krüger

Development of a cost-effective attapulgite adsorbent for lead(II) removal from aqueous solution: preparation, characterization and performance Xinyue Geng

A molecular dynamics study on the impact of isomorphic substitution on the interaction between illite and colloidal alumina in laterite Jing Yan, Daoyong Wu, Zipeng Qin, Jie Wang, Weizhong He, Qingliang Zhu, Yan Tian

AND ANOTHER IMPORTANT BIRTHDAY: DAVID VAUGHAN



In this year of important anniversaries, we add that former President, Prof. David Vaughan, celebrates his 80th birthday. David contributed extensively to the Society, serving on the Applied Mineralogy Group committee, on Council and as President. He was also president of the Mineralogical Society of America and the EMU, and served as one of the first members of the *Elements* Editorial Board as Principal Editor of Mineralogy in 2008–2010.

David's work has focused on fundamental studies of minerals, particularly metal sulfides and oxides, using advanced analytical, spectroscopic and imaging techniques; molecular-scale studies of mineral surfaces including interactions with microbial species, and applications of such studies to problems of Earth resources (including mineral extraction technologies) and the environment. He is author/co-author of over 300 publications in scientific journals and of textbooks. He edited an important volume on Environmental Mineralogy for the European Mineralogical Union when that subject was still in its infancy. Happy Birthday, David!