

Mineralogical Society of Great Britain and Ireland

www.minersoc.org

NEWS FROM LONDON

By the time you read this, our EDI (equality, diversity, inclusivity) survey will have been launched. Go to <https://forms.gle/uZweqP8Gx-uMxWJrL7> if you'd care to complete the survey. It will take about 10–15 minutes. The results will be useful to all (though note that we will not share any personal information about an individual and we do not ask respondents to divulge their names or contact information), and we will be publishing a series of actions to be adopted by the society, and separately, by its members, by end-2021.

There has been a real feel of wanting to achieve something very positive out of this exercise. And that sense is international. The Mineralogical Society (MinSoc) committee has engaged with colleagues from other societies and organizations. Learned societies and not-for-profits want to get this right.

THE SOCIETY ONLINE

We've all bemoaned the fact that we are not able to meet in person. Hopefully, we can scratch that itch in the not-too-distant future! For now, the MinSoc, like many organizations, has pivoted to online presentations of meetings, seminars and workshops.

We have more than 80 videos available on the MinSoc's Youtube channel (<https://www.youtube.com/channel/UCJLEvvFJEAtt2SRHozqd7LQ>). These include the following:

The **Geomicrobiology Network Seminar Series** (John Moreau/Karen Cameron – more details at <https://www.minersoc.org/gmbn-seminars.html>)

- Rosa Santomartino: Harnessing the power of microbe–mineral interaction in space: BioRock and BioAsteroid
- Liz Bagshaw: Cryoconite: what, where, why, how?
- Olga Golyshina: Acidophiles and cold temperature archaea
- Jon Telling: What lies beneath – past and present research into subglacial biogeochemistry
- Casey Bryce: microbial iron oxidation and banded iron formations
- Ciara Keating: From macro-to-micro scale – method development of an anaerobic live-imaging platform for industrially relevant anaerobic cells
- Jon Lloyd: Going underground; how the subsurface microbiome may offer the key to unlocking sustainable life
- Ashish Malik: Linking microbial communities to soil carbon cycling under anthropogenic change using a trait-based framework
- Charles Cockell: Geobiology in the z axis

The **Applied Mineralogy Group Open Geoscience Talks** (A. Lacinska – more details at: <https://www.minersoc.org/amg-open.html>)

- Phil Renforth: The potential of alkaline mineral materials for CO₂ removal from the atmosphere
- Juerg Matter: Rapid & permanent greenhouse gas removal via carbon dioxide mineralisation – the CarbFix project

There is also the first of our **New Topics in Mineralogy Meetings**: 'Diffusion in Minerals, Rocks and Melts: Potential and Pitfalls' (go to <https://www.minersoc.org/diffusion.html> for further information and links to panel discussions)

- Katharina Marquardt: Grain boundary diffusion: bicrystal studies
- Thomas Mueller: Getting the *t* into the *P–T–t* path – deciphering timescales of tectono-metamorphic processes using diffusion chronometry

- Sumit Chakraborty: Diffusion: Ubiquitous and local
- Roy Wogelius: Reaction kinetics and diffusive transport in low permeability geological systems
- Clare Warren: Diffusion and thermochronology: Theory and geological reality
- Daniel Morgan: Simple diffusion chronometry in igneous systems – methods, results and limitations
- Chiara Petrone: Elemental diffusion chronostratigraphy: a non-isothermal approach to magma dynamics
- Euan J. Mutch and John MacLennan: Exploring uncertainty structure in diffusion timescales using Bayesian analysis of finite element models: applications to magma storage and transport

And that's not all.

Earlier in 2021, we had over 100 people per week who tuned into our series of five weekly workshops entitled Science Communication, which were delivered by Rowena Fletcher-Wood. This was a new type of departure for our society. Copies of the slide decks are available at <https://www.minersoc.org/science-communication-workshop.html>. This was a really enjoyable learning opportunity, and the society will look at other such courses for the future. This one was free of charge. Remote attendance makes it possible for anyone to take part: one of our first goals of EDI.

NEW TOPICS IN MINERALOGY 2: THE MINERAL–MICROBE INTERFACE THROUGH TIME AND SPACE

2–3 December 2021

Burlington House, London

As for more traditional meetings (we hope) ...

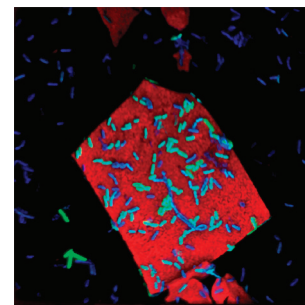
The Mineralogical Society is delighted to announce a two-day "New Topics in Mineral Sciences" meeting focusing on the importance of the mineral–microbe interface. Topics explored will span the role of mineral surfaces in the emergence of life on Earth (and potentially other planets) through to the key role of this interface in controlling modern global biogeochemical cycles. Recent advances in the fundamental understanding of these important processes will be presented, alongside more applied aspects of the mineral–microbe interface. The latter will include the new biotechnological innovations that underpin sustainable mineral bioprocessing, biomineralisation, bioremediation, and energy applications. We are planning a hybrid meeting, with presentations from international leaders in the field, alongside contributions from early career researchers working across the "geo" and "bio" disciplines.

This meeting will be led by Jon Lloyd, President.

OTHER EVENTS

Keep an eye on our meetings page (<https://www.minersoc.org/meetings.html>).

By the time this issue of *Elements* lands on your desk, we will have held our 400+ delegate Metamorphic Studies Group Annual Meeting. A report has been published on the website: see <https://www.minersoc.org/msg-rip-2021.html>. You will also find links to videos of almost 30 presentations.



Geobacter cells. (IMAGE COURTESY OF LAURA NEWSOME)

We also have plans for meetings of our various groups (the Clay Minerals, Environmental Mineralogy, Geochemistry and other groups) around this time.

JOURNAL PUBLISHING

Our journals have continued to publish in the usual way.

Recent content in *Mineralogical Magazine* has included:

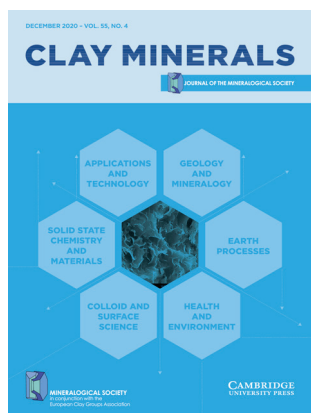
Chromium-rich vanadio-oxy-dravite from the Tzarevskoye uranium-vanadium deposit, Karelia, Russia: a second world-occurrence of Al-Cr-V-oxy-tourmaline – Ferdinando Bosi, Alessandra Altieri, Fernando Cámara, Marco E. Ciriotti

Thunderbayite, $\text{TiAg}_3\text{Au}_3\text{Sb}_7\text{S}_6$, a new gold-bearing mineral from the Hemlo gold deposit, Marathon, Ontario, Canada – Luca Bindi, Andrew C. Roberts

Nepheline solid solution compositions: stoichiometry revisited, reviewed, clarified and rationalised – C. Michael B. Henderson

The mineralogy of the historical Mochalin Log REE deposit, South Urals, Russia. Part II. Radekškodaite-(La), $(\text{CaLa}_5)(\text{Al}_4\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_5\text{O}(\text{OH})_3$ and radekškodaite-(Ce), $(\text{CaCe}_5)(\text{Al}_4\text{Fe}^{2+})[\text{Si}_2\text{O}_7][\text{SiO}_4]_5\text{O}(\text{OH})_3$, two new minerals with a novel structure-type belonging to the epidote-törnebohmite polysomatic series – Anatoly V. Kasatkin, Natalia V. Zubkova, Igor V. Pekov, Nikita V. Chukanov, Dmitriy A. Ksenofontov, Atali A. Agakhanov, Dmitriy I. Belakovskiy, Yury S. Polekhovskiy, Aleksey M. Kuznetsov, Sergey N. Britvin, Dmitry Yu. Pushcharovsky, Fabrizio Nestola

Vittinkiite, $\text{MnMn}_4[\text{Si}_5\text{O}_{15}]$, a member of the rhodonite group with a long history: definition as a mineral species – Nadezhda V. Shchipalkina, Igor V. Pekov, Nikita V. Chukanov, Natalia V. Zubkova, Dmitriy I. Belakovskiy, Sergey N. Britvin, Natalia N. Koshlyakova



Towards a detailed comprehension of the inertisation processes of amphibole asbestos: in situ high-temperature behaviour of fibrous tremolite – Paolo Ballirano, Alessandro Pacella

Platinum-group minerals from the Malaya Kamenushka River placer, Middle Urals, Russia – Roman S. Palamarchuk, Sergey Yu. Stepanov, Aleksandr V. Kozlov, Dmitry A. Khanin, Dmitry A. Varlamov, Andrey A. Zolotarev, Daria V. Kiseleva, Vladimir V. Shilovskikh

Bosoite, a new silica clathrate mineral from Chiba Prefecture, Japan – Koichi Momma, Takuji Ikeda, Toshiro Nagase, Takahiro Kuribayashi, Chibune Honma, Katsumi Nishikubo, Naoki Takahashi, Masayuki Takada, Yoshitaka Matsushita, Ritsuro Miyawaki, Satoshi Matsubara

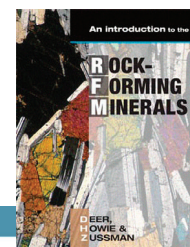
Effects of grinding and dehydration on kaolin in a steam jet mill – Zhe Wang, Hong Li, Haiyan Chen, Juan Lv, Hao Leng, Junhui Xiao, Shuai Wang

Synthesis of Fe-layered double hydroxide from bittern and its nitrate ion removal ability – T. Wajima

Modelling, kinetics and equilibrium studies of crystal violet adsorption on modified montmorillonite by sodium dodecyl sulfate and hyamine surfactants – Malihe Sarabadian, Hadis Bashiri, Seyed Mahdi Mousavi

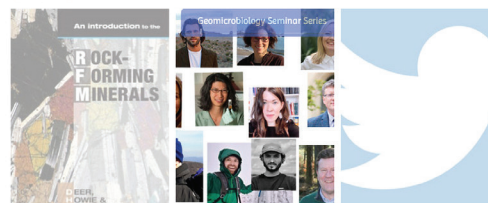
BOOKSHOP

And finally, do remember to pay a visit to our online bookshop (link from the homepage of the website: www.minersoc.org).



ABOUT JOURNALS BOOKS GROUPS AWARDS MEMBERSHIP MEETINGS

The Mineralogical Society of Great Britain & Ireland is an international society for all those working in the mineral sciences.



SEARCH