



Mineralogical Association of Canada

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NEWS FROM THE CANADIAN JOURNAL OF MINERALOGY AND PETROLOGY (CJMP)

Highlights

Our July issue commences with a headliner on the application of chemical activity modelling to orogenic gold deposits with specific reference to the carbonation of ultramafic rocks, from researchers at Laurentian University (Sudbury, Canada). The significance of reaction rims on iron oxides for kimberlite crystallization is examined by researchers from Dalhousie University (Halifax, Canada) and colleagues, based on evidence from diamondiferous pipes from Botswana. Abdel-Fattah Abdel-Raman examines the origins of rare-metal enriched A-type granites from the Nubian Shield in eastern Egypt with an eye on mantle metasomatism.

From a perspective of increasing smaller scale, we present a study of microbial scavenging of various siderophile transition metals from waste rock of an abandoned pyrite mine in Sulphide, Ontario (yes, really) and the implications for metal recovery, presented by a team of researchers from the University of Waterloo (Canada) and from Queensland, Australia, and additional colleagues from both neighborhoods. This is followed by a study of radiation-induced defects in quartz from uranium deposits in Saskatchewan by researchers from the University of Saskatchewan (Saskatoon) in collaboration with Baseload Energy Corp. in Toronto. Lastly, a new PbSe oxide with the catchy monicker of molybdomenite-P2_{1/c} is described from the much more evocatively named El Dragón Mine, Bolivia, by researchers from the University of Arizona (USA). And yes, that is Spanish for 'the dragon', but if you were to guess that this was perhaps a gold deposit on that



THE CANADIAN JOURNAL OF MINERALOGY AND PETROLOGY



Check out the new Short Communications feature of the CJMP! Rapid review and turnaround times, in the right context for your content.

- Technical advances relating to mineralogy or petrology
 - Concept development papers
 - Follow-ups to existing research
 - Preliminary announcement papers

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THE JOURNAL OF THE MINERALOGICAL ASSOCIATION OF CANADA

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basis, you'd be mistaken, as this is described in MinDat as 'the most spectacular occurrence of Se-bearing minerals on Earth'.

For those who can't wait for the formal issue releases, like downloading the hit singles before the album comes out, our online November issue of *CJMP* features articles either garnered from, or inspired by, the 14th International Platinum Symposium held in Cardiff (UK) in July 2023.

Our recently most-read publications, according to GeoScienceWorld, include the following:

Back in first place, we feature **Growth and Stability of Stratiform Carrollite (CuCo₂S₄) in the Tenke-Fungurume Ore District, Central African Copperbelt**, by Bjorn Von Der Heyden, Jeffrey Dick, Ryan Rosenfels, Luke Carlton, Kristina Lilova, Alexandra Navrotsky, Tamilarasan Subramani, Brian Woodfield, and Alexis Gibson, in vol. 62 (1).

In second place is the new release described above, **Application of Thermodynamic Modeling (Activity Diagrams) to Carbonated Ultramafic Rocks Associated with Orogenic Gold Environments** by Derek Leung, Doug Tinkham, and Andrew McDonald.

Our most cited recent publications are a tie between **On the Attributes of Mineral Paragenetic Modes** by Robert Hazen, Shaunna Morrison, Anirudh Prabhu, Jason Williams, Michael Wong, Sergey Krivovichev, and Marko Bermanec, and **Trace Element Characteristics of Tourmaline in Porphyry Cu Systems: Development and Application to Discrimination** by Christopher Beckett-Brown, Andrew McDonald, and Beth McClenaghan. Fans of either publication are encouraged to try to break the tie for our next release!

Our new (since late 2023) Short Communications format is our feature promotion in this issue. Don't delay sharing your mineralogical and petrological discoveries; enquiring minds want to know.

Finally, we would like to notify our readership that the editorial board members of *CJMP* are co-convenors of a (proposed) session at the next year's annual meeting of the Geological Association of Canada / Mineralogical Association of Canada (GAC-MAC) in May 2025 in Ottawa (Canada), next year with added IAH and CNC (International Association of Hydrogeologists - Canadian National Chapter), in which interested parties are encouraged to participate. The session, co-convened by Steven Denyszyn (Memorial University of Newfoundland, Canada), Steve Prevec (Rhodes University, South Africa), and J. Gregory Shellnutt (Taiwan Normal University, Taipei, Taiwan), is entitled **Mafic intrusions, associated magmatism and metallogenesis in anorogenic settings**. Don't miss out.

INTRODUCING NEW MAC COUNCIL MEMBERS

VICE PRESIDENT

May 2024–May 2026



David R. Lentz (Research Chair in Economic Geology for the Department of Earth Sciences, University of New-Brunswick)

David received his BSc (1983) and MSc (1986) degrees in geology from the University of New Brunswick (UNB). He completed a PhD in 1992 at the University of Ottawa with the renown Prof. Ralph Kretz and then worked with the Geological Survey of Canada for three years with Wayne Goodfellow. In 1994, Lentz joined the New Brunswick Geological Survey as their mineral deposit geologist. Since 2000, he has held the Research Chair

in economic geology at UNB, with a research focus on the petrogenesis of ore deposits. He is also an adjunct professor at the University of Maine (USA) and Trinity College Dublin (Ireland). Dave has been honored with many awards: early on, he received the William Harvey Gross Young Scientist Medal from the Geological Association of Canada (GAC). Later, he has been honored with the GAC's Distinguished Service Award; MAC's Peacock Medal, the New Brunswick Association of Professional Engineers & Geoscientists' Loring Bailey Geoscience Award; the Atlantic Geoscience Society's Gesner Distinguished Scientist Medal and their Nelly Koziel Award for outstanding contributions to the Atlantic Geoscience Community; the Canadian Institute of Mining, Metallurgy and Petroleum's Julian Boldy Award and their Distinguished Lecturer tour; and the International Association on the Genesis of Ore Deposits' International Distinguished Lecturer Award. Dave is a Fellow of Geoscientists Canada. Notably, he has edited three popular ore deposits-related books for the Geological Association of Canada and the Mineralogical Association of Canada and has published over 300 journal articles, in addition to numerous government publications with several awards for best paper with his students. Dave is particularly well known for his volunteer activities, but especially professional and applied short courses, workshops, and field trips, as well as chairing meetings for CIM, Association of Applied Geochemists (AAG), GAC-MAC, and AGS.

May 2021–May 2027



Brian O'Driscoll (Professor and Newmont Chair in Economic Geology, Department of Earth and Environmental Sciences, The University of Ottawa)

Brian is currently professor and Newmont Chair in economic geology at the University of Ottawa. He originally studied geology at University College Cork, Ireland, where he graduated with a BSc in 2003. His PhD (awarded by Trinity College Dublin in 2007)

was supported by an Irish Research Council scholarship and concerned with the petrogenesis of layered mafic-ultramafic intrusions. Prior to his arrival in Canada in 2022, he held academic appointments at the University of Manchester and Keele University (both in the UK) since 2008. From 2007–2008, he held a postdoctoral position at University College Dublin, Ireland, funded by an Irish Research Council for Science, Engineering and Technology scholarship.

He has been an ordinary committee member of the UK Volcanic and Magmatic Studies Group (2007–2010) and a committee member of the UK Metamorphic Studies Group (2011–2014). He has also served as an Ordinary Council Member (2013–2015) and as Vice-President (2016) of the Mineralogical Society (of Great Britain and Ireland), as well as Associate Editor for *Mineralogical Magazine* (2014–2019), Associate Editor for *Lithos* (2013–2016), and Review Editor for *Frontiers in Earth Science (Petrology)* from 2017–present.

His research interests are broad, mainly focused on elucidating the emplacement and solidification of magma bodies in the Earth's crust, as well as constraining melt generation and migration in the upper mantle. He also carries out work in ore deposit (principally platinum-group metal) petrogenesis and early Earth evolution within the framework of the latter areas. He combines field observations, as well as petrological, geochemical, and isotopic information from igneous (and sometimes metamorphic) rocks, to address these topics.

MAC TRAVEL & RESEARCH GRANT WINNERS 2024

The Mineralogical Association of Canada (MAC) awarded 18 Student Travel and Research Grants in 2024. We congratulate the following recipients of the 2024 Mineralogical Association of Canada Travel & Research Grant.

- Angelina Daoud (MSc, McMaster University)
- Delaney Carter (MSc, Saint Mary's University)
- Kiera Hamel (MSc, Memorial University of Newfoundland)
- Kelsey Krossa (MSc, University of British Columbia – Okanagan)
- Nicholas Prieto-Moreno (MSc, Memorial University of Newfoundland)
- Taylor Morrell (PhD, Queens University)
- Lindsey Abdale (PhD, University of British Columbia)
- Melissa Bowerman (PhD, University of Alberta)
- Dana Šilerová (PhD, Saint Mary's University)
- Sheila Ballantyne (PhD, University of Toronto)
- Kiersty Malay (PhD, Memorial University/ St. Francis Xavier University)
- Leo Ka Long Cheung (PhD, University of Saskatchewan)
- Lydia Fairhurst (PhD, Dalhousie University)
- Carson Kinney (PhD, University of Waterloo)
- Alix Osinchuk (PhD, University of British Columbia)
- Rifkhan Mohammed Nayeem (PhD, Dalhousie University)
- Jade Umbsaar (PhD, University of Toronto)
- Lot Koopmans (PhD, University of Oxford)

MAC SCHOLARSHIP WINNERS 2024

The Mineralogical Association of Canada funds two annual scholarships to graduate students.

One \$3000 scholarship to a student enrolled in an MSc program and one \$5000 scholarship to a student in a PhD program.

- **Kelsey Krossa** (MSc, University of British Columbia – Okanagan)
- **Alix Osinchuk** (PhD, University of British Columbia)



More information can be found at: <https://event.fourwaves.com/ottawa2025/pages>.