



# Mineralogical Association of Canada

[www.mineralogicalassociation.ca](http://www.mineralogicalassociation.ca)

## THE CANADIAN MINERALOGIST NEWS

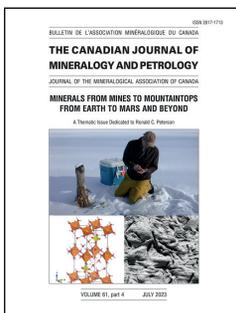
### Highlights

In July 2023, the *CJMP* released its latest thematic issue: a tribute to the lifetime's work of Ron Peterson of Queen's University (Kingston, Canada). This issue was inspired by the special session at the 2021 Canadian national geological-mineralogical meeting (the GAC/MAC) in London, Ontario (Canada) dedicated to Dr. Peterson's contributions to the field, in the event of his recent retirement. These career tributes are a lot more meaningful, arguably, when the recipient is still around to enjoy and participate in them, as was the case in this event.



Convenors of and participants in the Ron Peterson session at the 2021 GAC/MAC, pilurloined from the Queen's University geology website at <https://www.queensu.ca/geol/gacmac-special-session-honour-dr-ron-peterson>. Dr. Peterson himself features (FRONT ROW, FAR LEFT).

The thematic issue consists of 11 papers prefaced by a contribution from Ron's former students (Roberta Flemming and Lee Groat) and colleagues (Bryan Chakoumakos and Heather Jamieson) who served as the guest editors for the collection. The title of the thematic issue, "Minerals from Mines to Mountaintops from Earth to Mars and Beyond" illustrates the breadth of interests on display. Minerals featured in this collection include pegmatite-hosted alkali feldspars (with particular attention to Cs fractionation), spinels in carbonaceous chondrites, chromites and garnets from a Saskatchewan kimberlite, arsenic and antimony-hosting minerals, placer platinum-group minerals from Russia, liddicoatite from Madagascar, and sveite, beryl, and vaterite in otoliths. In addition, melting of marbles and a revised assessment of the implications of mineral paragenetic modes get a look in. A broad palate indeed, although "From Meteorites to Fishes' Ears" doesn't alliterate as well as the chosen issue title.



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

- **Trace Element Characteristics of Tourmaline in Porphyry Cu Systems: Development and Application To Discrimination** by Christopher Becket-Brown, Andrew McDonald, and Beth McClenaghan (Vol. 61, 2023), and its partner publication entitled **Recognizing Tourmaline in Mineralized Porphyry Cu Systems: Textures and Major-Element Chemistry** by the same authors (in the same order and in the same issue).
- And if tourmaline isn't your thing, you could try our next most widely read offering: **Textural and Mineralogical Evolution of the Little Nahanni Pegmatite Group (NWT, Canada) with Implications for Metasomatism, Rare-Metal Mineralization, and Pegmatite-Wall Rock Interaction** by Jérémie Pfister, Daniel Kontak, and Lee Groat (which has no tourmalines, rather spodumene instead).

- Or you could avoid pegmatites altogether and have a gander at this offering from Andrew McDonald, Louis Cabri, Nobumichi Tamura, Frank Melcher and Anna Vymazalová: **Driekopite, Ideally PtBi, a New Mineral Species from the Driekop Platinum Pipe, Republic of South Africa**.

### Our Associate Editors

As a means of both gratefully acknowledging and promoting the efforts of researchers in the mineralogical and geoscience community who donate their time to the necessary task of facilitating effective peer review, we continue to use this space to feature our Associate Editors (AE's). In this issue, we feature two more of our long-standing contributors from our igneous petrological expertise-base.

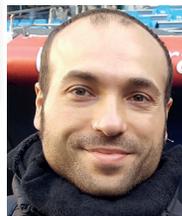
#### Aaron Lussier



Dr. Lussier has held the position of Research Scientist in Mineralogy at the Canadian Museum of Nature in Ottawa, Canada, since 2017. He has also served as adjunct professor at the University of Ottawa, and as a member of MAC Council. He is currently the Canadian representative for the IMA Commission on Museums (IMA-CM). He completed his BSc (Hons.) and PhD degrees at the University of Manitoba, in addition to an MSc at McGill

University and a post-doc at the University of Notre Dame (South Bend, Indiana, USA). His research emphasizes the link between mineral chemistry and structure, and has included studies of compositional zoning in pegmatitic tourmalines (his PhD), the crystal chemistry of uranium minerals, as well as environmental studies of various ore minerals (chromite and Co-As-sulfides). He has published over 30 papers that have been cited nearly 700 times to date. He serves as Associate Editor for both the *American Mineralogist* (since 2020) and *CJMP* (since 2019).

#### Ciro Cucciniello



Prof. Cucciniello is employed in the Department of Earth Sciences at the University of Naples Federico II (Italy). He is an expert in analytical chemistry on whole rock and mineral samples through X-ray fluorescence spectrometry (XRF) and scanning electron microscopy and energy dispersive spectrometry SEM/EDS. He is particularly interested in the igneous geochemistry, geochronology, and petrology of flood basalts, as

well as alkaline rocks associated with larger igneous intrusive and extrusive provinces. He has, for example, recently published on African and Indian mafic to felsic igneous complexes. He currently has on the order of 35 scientific papers in peer-reviewed journals with an h-factor of 18 and around 630 citations, mostly achieved in the past five years. Prof. Cucciniello has been serving as an Associate Editor of the *CJMP* since 2019.

### CALL FOR PAPERS – THEMATIC ISSUE ON CRITICAL MINERALS

The *Canadian Journal of Mineralogy and Petrology (CJMP)*, formerly *The Canadian Mineralogist*, covers a variety of topics including petrology, crystal chemistry, ore deposits, and applied mineralogy. Given the continued interest and innovative research around critical minerals in Canada and internationally, the *CJMP* is announcing a second volume of a "Thematic Issue on Critical Minerals". The last volume was released

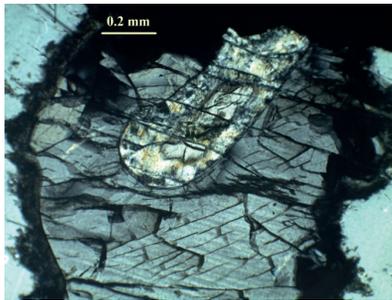
in November 2022 and covered a variety of mineral commodities from V, Li, PGEs, and REEs occurring in a multitude of petrogenetic environments.

For the second volume of this thematic issue, the *CJMP* invited four editors with varied backgrounds to encompass the diversity of research on critical minerals and their deposits. The editorial team will be led by Dr. Tania Martins from the Manitoba Geological Survey (Canada), who has worked extensively on Li-Cs-Ta-Sn-bearing pegmatites in Portugal, as well as in central Canada. She will be joined by Dr. Anton Chakhmouradian from the University of Manitoba (Canada), whose focus is on carbonatites and associated rocks; Dr. Marc Rinne from the Manitoba Geological Survey (Canada) with expertise in magmatic nickel, volcanogenic and intrusion-related sulfide deposits; and Dr. Jon Errandonea from the University of the Basque Country (Spain) with expertise in Variscan peraluminous granite magmatism of the Iberian Massif and Li mineralization in pegmatites and evolved granites.

Submissions are invited on any topic involving the mineralogy or petrogenesis of any critical minerals (not limited to those mentioned above). The deadline for submissions is March 31, 2024 (with a target date for publication of the issue six months from then). For our planning purposes, and to obtain submission information, potential contributors should contact Tania Martins at [Tania.Martins@gov.mb.ca](mailto:Tania.Martins@gov.mb.ca). We will then share the relevant manuscript-preparation details with you to ensure a seamless submission process.

## FEATURED MINERAL/TEXTURE

The accompanying illustration demonstrates the paragenetic complexity demonstrated by the Merensky Reef, from samples in the northeastern part of the Bushveld Complex, South Africa (not so far from Merensky's original discovery site). The olivine grain shows evidence of resorption and serpentinization, preceding or accompanying its inclusion in enstatite, normally present as a primocryst phase in these rocks. The upper right parts of these minerals have been plucked out during thin section preparation. In 2024, the Geological Society of South Africa will be celebrating 100 years since the reef was discovered, through the hosting of a symposium in the area.



A rounded olivine grain hosted in orthopyroxene, itself hosted in plagioclase, from the Merensky Reef, eastern Bushveld Complex. PHOTO: S. PREVEC.

## BRANDON GAC-MAC-PEG 2024 JOINT ANNUAL MEETING

May 19–22, 2024

Brandon University, in Brandon, Manitoba, Canada

The 2024 Joint Annual Meeting of the **Geological Association of Canada (GAC)** and the **Mineralogical Association of Canada (MAC)** will be held on **May 19–22, 2024** at Brandon University, Manitoba, Canada. This meeting will include all the expected GAC and MAC programming, as well as the **10<sup>th</sup> International Symposium on Granitic Pegmatites** with field trips and special sessions.

GAC-MAC-PEG 2024

AGC-AMC-PEG 2024



The theme of the meeting is “**At the Heart of the Continent**”. You can expect an excellent scientific program and a variety of field trips and short courses.

The preliminary program is available on the meeting website. Abstract submission will be open on December 15, 2023; early submissions (before January 20, 2024) will receive a substantial fee reduction. Abstract submission will close on February 15, 2024.

There will be options to book return or one-way trips with a conference shuttle between the Winnipeg airport and Brandon University. Those coming from the west may fly directly to Brandon through Calgary.

Visit <https://event.fourwaves.com/gacmac2024/pages> for updates.

## MEDALS AND AWARD – CALL FOR NOMINATIONS

### *Peacock Medal, Berry Medal, and Young Scientist Award*

Assembling the documentation to nominate a colleague takes time and energy, but the reward of seeing outstanding scientists recognized more than repays the effort. If you've been thinking about it, working on it, or just haven't gotten around to finalizing it yet, please let us remind you that nominations for the MAC medals and awards are due December 31.

- The **Peacock Medal**, formerly the Past-Presidents' Medal, is awarded to a scientist who has made outstanding contributions to the mineralogical sciences in Canada. There is no restriction regarding nationality or residency. The medal recognizes the breadth and universality of the awardee's contributions to mineralogy, applied mineralogy, petrology, crystallography, geochemistry, or the study of mineral deposits.
- The **Young Scientist Award** is given to a scientist who has made a significant international research contribution during the early part of their scientific career. The scientist will have received their PhD not more than 15 years before the award. They must be of Canadian nationality working anywhere in the world, or be a scientist of any nationality working in Canada. The research areas include mineralogy, crystallography, petrology, geochemistry, mineral deposits, or related fields of study.
- The **Berry Medal** is awarded annually for distinguished service to the association. The award recognizes significant service to the MAC in one or more areas that may include leadership or long-term service in an elected or appointed office or as important contribution(s) that has enhanced the mineral sciences in Canada or that has broadened the Canadian mineralogical perspective. The medal is named after Leonard G. Berry (1914–1982), a founding member of MAC, editor for 25 years of *The Canadian Mineralogist* and its predecessor journal, and the first winner of MAC's Past-Presidents' (now Peacock) Medal.

Check the terms of reference on our website at <https://mac-amc.myshopify.com/pages/awards>.

Nominations for the 2024 medals and award are to be submitted to Andrew Conly, Department of Geology, Lakehead University, 955 Oliver Road, Thunder Bay, ON P7B 5E1; E-mail: [aconly@lakeheadu.ca](mailto:aconly@lakeheadu.ca). Please submit your nominations by **December 31, 2023**.