



Mineralogical Association of Canada

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THE CANADIAN MINERALOGIST

LEE GROAT STEPPING DOWN AS EDITOR OF THE CANADIAN MINERALOGIST



Dr. Lee A. Groat of the University of British Columbia (Canada) is stepping down after serving as Editor of *The Canadian Mineralogist* since 2012. The association owes a great debt of gratitude to Professor Groat. He successfully steered the journal through some trying times and maintained the high quality and international reputation of the journal throughout his tenure, while still maintaining a burgeoning research group at the

University of British Columbia.

Professor **Ron Peterson**, from Queens University (Canada) served as technical editor with Lee for *The Canadian Mineralogist*. Dr. Peterson is also stepping down and is likewise thanked for his tireless efforts on our journal during his tenure of over a decade.

NEW EDITORS FOR THE CANADIAN MINERALOGIST

The **Mineralogical Association of Canada** is pleased to announce the appointment of two leaders in the mineralogical and petrological sciences to serve as editors for *The Canadian Mineralogist* on a three-year appointment.

Dr. Andrew ('Andy') M. McDonald

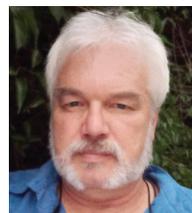


Andy is an applied mineralogist in the Harquail School of Earth Sciences at Laurentian University (Canada). His background is firmly planted in the crystal chemistry of minerals, which he uses to solve geologically relevant problems, specifically those in the areas of high field strength element (Ti, Zr, Nb) mineralogy, platinum-group minerals, and sulfides from magmatic ore deposits. He obtained a B.Sc. (Hons.) from the University of

Toronto (Canada) (1987) and graduate degrees from Carleton University, Canada (M.Sc. 1989, Ph.D. 1992). He joined the faculty at Laurentian in 1992 and holds the rank of full professor there. He volunteered with International Centre for Diffraction Data for nearly two decades, served as Associate Editor of the *American Mineralogist* (2010–2013) and has held IMA-related positions, including as the Vice-Chair, COM (2010–2013), and the former IMA Commission on the Classification of Minerals (1996–2002). Within the MAC framework, he served as Secretary (2000–2006), has been a member of the Executive Council (2014–2022), served as Associate Editor of *The Canadian Mineralogist* (2006–2009), along with being a guest editor for both the special volume on The Mineralogy and Beneficiation of PGM-Cu-Ni ores (vol. 49, no. 6) and the recently published thematic issue dedicated to Prof. A. J. Naldrett (vol. 59, no. 6). His students and he have been awarded the Hawley medal three times (2015, 2018, 2019). He organized a Berry Summer School on Optical Mineralogy with Prof. Jim Nicolls (2014), was Vice-Chair for the Sudbury 1999 GACMAC meeting, and will be serving on the LOC for the Sudbury 2023 GACMAC meeting.

Andy welcomes the opportunity to continue the legacy of high-quality research being published in *The Canadian Mineralogist* and to build upon its established commitment to supporting a strong forum for research in a broad range of areas.

Dr. Stephen ('Steve') A. Prevec



Steve is a geochemist and petrologist in the Department of Geology at Rhodes University in South Africa. His research is rooted in the application of petrography, geochemistry, and radioisotope geochemistry to understanding the genesis of (mostly mafic) igneous rocks and their ores, and in igneous rocks associated with large terrestrial impact craters. He obtained his B.Sc. (Hons) from McMaster University (Canada) in 1985, followed

by an M.Sc. at the same institution and a Ph.D. from the University of Alberta, Canada (1987–1990, although he only collected the degree in 1993). He was employed in the geochronology unit of the Geological Survey of Canada (Ottawa; 1991–1992), and conducted post-doctoral research at GEOTOP (UQAM, Montréal) from 1992–1994 and at Laurentian University (1994–1998). In 1998, he took up an appointment at the University of the Witwatersrand in Johannesburg, South Africa, moving in 2004 to Rhodes University, where he is currently an Associate Professor and a full-time lecturer and researcher. He served as Head of Department from 2008 to 2016. Steve has been a member of the GAC since 1984, and of the Geological Society of South Africa (GSSA) since 2003, in which he currently serves as a Fellow and Council Member. He served as editor of the quarterly magazine of the GSSA from 2003 to 2011, and was awarded the society's Honours Award in 2010 for this service. He is currently the managing and production (i.e., sole) editor of the quarterly magazine of the Mineralogical Society of South Africa (since 2017). He has served as guest coeditor for a special volume of the *South African Journal of Earth Science* (a memorial issue for Prof. J. Moore in 2012), and has organized and run two national meetings of the Igneous and Metamorphic Studies Group, of which he is a founding member (2009) and Executive General Secretary.

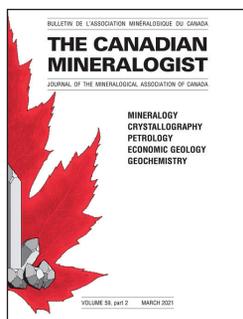
Steve is honoured by the prospect of serving the geoscience community, and particularly that of Canada, in an editorial capacity with *The Canadian Mineralogist*, where he aspires to build on the existing high standards of the journal and the society it represents. He shares his reflections below.

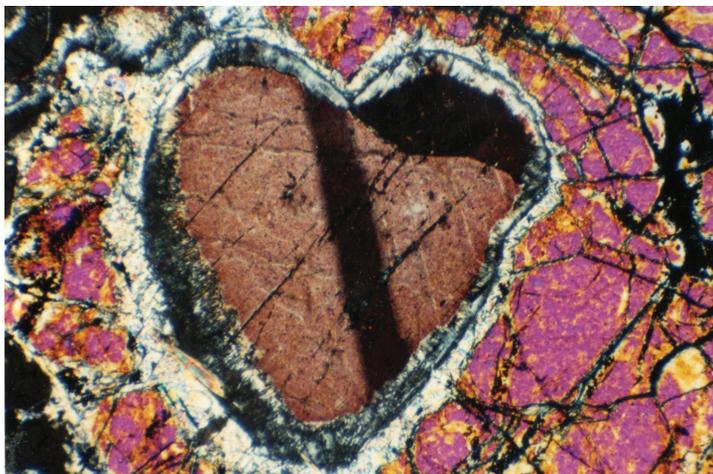
Mackenzie Parker, our stalwart managing editor, will continue to work with Steve and Andy to maintain the journal's premium quality set by Lee and his predecessors.

MINERALOGY: WHAT'S THE ATTRACTION?

In January this year, I was invited to become the co-editor of *The Canadian Mineralogist*, as of April. I said yes. I have been asked to explain why (more than once), and it's an interesting question. My geological career began in Canada, before following a job to South Africa, where I am now in my 25th year here in my adopted country. So what is the appeal of serving a geological community with which I am no longer physically much of an active participant in, and in a geological subdiscipline, mineralogy, which is not notionally my specialty?

In my formative years as a graduate student, I fancied myself as an isotope geochemist (or as some would say, evidently, but regrettably, an isotopist), helping to set up one of the first Sm-Nd labs in the country in the mid-1980s, with delusions of grandeur that I'd win the fabled case of Scotch offered by Stephen Moorbath for producing a reliable Hadean Rb-Sr isochron. As it turned out, I discovered that to solve the geological problems and to tell the kind of geological stories I wanted to tell, I needed to understand the rocks from their isotopes all the way back through their geochemistry to the field relationships and petrography, if not for the story, then for myself (I had not yet discovered the joys and trials of collaborative subdisciplinary team-driven research).





Interstitial plagioclase crystal, with polysynthetic twin, stained red with barium dichloride, surrounded by red-blue (2nd order) birefringent olivine, separated by a double corona of radial orthopyroxene replacing the olivine, and pargasitic amphibole replacing the feldspar. It is from the White Bear Arm Complex in the Grenville Province, Labrador, Canada.

At the root of everything is the mineralogy, and as my new coeditorial colleague, Andy McDonald, likes to observe, if you are studying rocks, then you are practicing mineralogy (he says it more poetically); the point is that you don't need to be a crystallographer, fortunately! (I don't worry, we have plenty of Associate Editors who are, as well as being "proper" mineralogists). As it has transpired, through studies of coronitic gabbros and granulites, mineralised impact melt sheets, and layered intrusions of various sizes, among other things, the really fascinating (not to mention aesthetically appealing) features were usually in the mineralogy, apart from my Ph.D. rocks, which were mostly a greenschist facies disaster of amphiboles and chlorites, forcing me to learn how to use immobile trace elements as petrogenetic tools; apolo-

gies to Pentti Eskola (the geologist, not the long jumper). Even in some of the least well-preserved of those rocks, I discovered (20 years later; persistence is key) evidence of in situ melting related to a combination of faulting and thermal metamorphism from a superheated impact melt sheet. I find that I am constantly drawn back to the mineralogy as the "ground truth", and I continue to find more and more applications of all of the stuff I was taught, and now teach, about mineral stabilities and solubilities, rheological and phase relationships, and discover constantly that there is a world full of way more interesting and useful stuff that I know not nearly enough about, and other people that do, which is very motivating.

About five years ago, I was invited to perform a similar but much less scientifically rigorous task of producing a quarterly magazine for the Mineralogical Society of South Africa (Minsa). They were similarly undeterred by my initial response of "but I'm not a mineralogist," and as a consequence, I have been exposed to aspects of the breadth of mineralogical studies across a much wider range of applications than my personal modest geological research would facilitate. The opportunity to participate in facilitating the production of a broad palate of robust and interesting mineralogically-based research and, in effect, rejoining the Canadian geological community (aside from when I pop back every year or two and relocate a few kilograms of rock from the Sudbury area to South Africa) was too attractive to pass up. As it happens, my work with Minsa had already led to reuniting with a quintessential Canadian mineralogist, Louis Cabri, and soon afterwards the circumstance arose to publish in *The Canadian Mineralogist* to honour Tony Naldrett and his work. After four months on the job with *The Canadian Mineralogist*, the work has been suitably interesting, my working colleagues very engaging, and I'm looking forward to the task ahead in maintaining a viable research journal in a challenging publishing environment. This has been a rewarding environment in which to do it.

Steve Prevec

The Canadian Mineralogist Co-Editor
Dept. of Geology, Rhodes University, South Africa