Mineralogical Association of Canada

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ANN SABINA 1930–2015

Canadian mineralogy lost a great, unsung heroine recently with the passing of Ann P. Sabina (Stetson) on 29 September 2015. Ann was educated at the University of Manitoba, where she learned the relatively new technique of X-ray diffraction (XRD) and its application to the identification of minerals. She was able to translate this skill into a position with the Geological Survey of Canada (GSC), becoming one of the first women hired by that organization. She spent the early part of her career at the GSC using XRD to study minerals in the survey's collection, a considerable portion of her time being dedicated to investigating the unusual mineralogy of the Francon quarry (Saint-Michel sill) in Montreal. This work resulted in the discovery of several new mineral species, including weloganite, hochelagaite, and voggite. In recognition of her immense work on documenting the mineralogy of this locality, the mineral sabinaite was named in her honor.

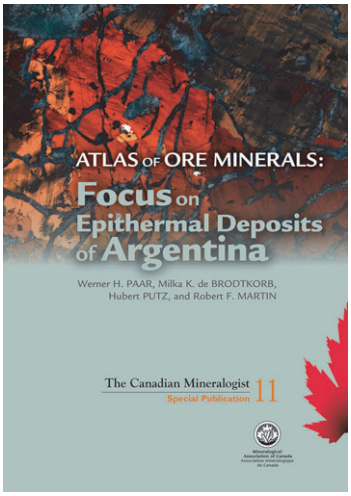
Besides her scientific achievements, Ann was an outstanding pillar of the Mineralogical Association of Canada (MAC), serving as treasurer for nearly 28 years. The MAC recognized her outstanding efforts in this regard, awarding her both an Honorary Life Membership and the Berry Medal in 1994. Another accolade, which demonstrates her commitment to the mineral-collecting community, was the establishment of the Ann Sabina Award in 1985 for the best self-collected collection of minerals. This award is a spin-off of her *Rocks and Minerals for the Collector* series, dog-eared copies of which exist in just about every mineralogist's and mineral collector's library. Ann recently completed updating this series while enjoying the fruitful years of her retirement, something that gave her immense pleasure and satisfaction because she appreciated how important such information is to the mineral-collecting community. Ann was also passionate about gemmology and was instrumental in helping to establish the Canadian Gemmological Association. She was not only a fellow of this association but also of the Gemmological Association of Great Britain, even teaching courses in gemmology at Carleton University in Ottawa. Her expertise in XRD led to a long-term interaction with, and volunteer commitment to, the International Centre for Diffraction Data, where she contributed to the Minerals Task Group over several decades.

Ann was a quiet, retiring individual who not only believed, but lived, the concept that actions speak louder than words. Her dedication to mineralogy in Canada, through the acceptance of positions and the tasks that she did with such dedication and perseverance (and in a reserved manner) speaks volumes. We mourn her loss, but her actions will continue to be demonstrable evidence of what a single person can do. For all her contributions, the Canadian mineralogical community will be forever grateful.

Andy McDonald, Laurentian University

PUBLICATION NEWS

Atlas of Ore Minerals: Focus on Epithermal Deposits of Argentina



This *Atlas of Ore Minerals*—Special Publication 11 of *The Canadian Mineralogist*—focuses on mineral assemblages in a variety of ore deposits well represented in, but not restricted to, Argentina. Many of them are of epithermal type. These minerals cover the first three classes of species in the classification of James Dwight Dana: native elements and alloys (class 1, $n = 13$); sulfides, selenides, and tellurides (class 2, $n = 127$); and sulfosalts (class 3, $n = 70$). Oxide minerals are not included. The photos provided show each mineral in its natural habitat, in typical associations, and in textures evocative of the complex reactions responsible for their formation.

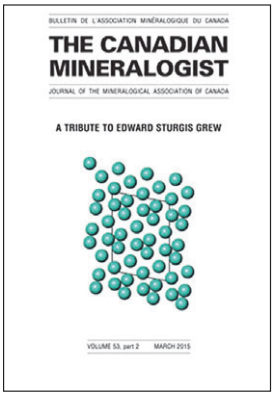
Ore deposits are acknowledged to be among the most complex inorganic features of our planet. They are the products of a complex genesis followed by complex reequilibration; textures are the tools that can help the explorationist unravel what is going on. The interpretation of textures is fraught with pitfalls and is subject to misinterpretation. The *Atlas* is, therefore, aimed at ore deposits professionals and budding explorationists.

The *Atlas* starts off with a geotectonic and metallogenic overview of Argentina, contributed by Dr. Eduardo Zappettini. The most significant deposits are then described and illustrated. In the main part of the *Atlas*, all 210 minerals are described and their physical attributes and chemical compositions are documented. At least one photo from a polished thin section is presented, along with a detailed caption that provides a tentative interpretation of the textural information shown. This is supplemented in many cases by a macroscopic photo of the mineral. In addition to a bibliography covering Argentinian occurrences, the reader will find additional references about the mineral, which are arranged chronologically, starting with the original description of the species. Citations to notable occurrences of each mineral in various contexts and associations also are provided. As an aid to those giving graduate-level courses on ore deposits, all photos in the book (31 in class 1; 292 in class 2; 187 in class 3; and 53 to illustrate the deposits) have been placed on a CD that accompanies the *Atlas*.

The following ore minerals have a type locality in Argentina: achavalite, brodtkorbite, coiraite, ishiharaite, klockmannite, putzite, and suredaite. Included is a biographical sketch of the scientists whose accomplishments in the study of ore deposits have been recognized by the naming of these minerals. The *Atlas* concludes with an index of mineral species encountered (including gangue minerals) and of localities represented in the photos selected, both within Argentina and elsewhere. An appendix on ore-deposit models includes definitions of terms used to describe deposits and assemblage types throughout the volume.

The *Atlas of Ore Minerals* is the work of four authors: Prof. Werner H. Paar (University of Salzburg, Austria); Prof. Milka K. de Brodtkorb (formerly of the University of Buenos Aires and now at the Universidad Nacional de Río Cuarto in Córdoba, Argentina); Dr. Hubert Putz (Vöcklabruck, Austria); and Prof. Robert F. Martin (McGill University, Montreal, Canada). Listed as contributors are Dr. Sabrina Crosta (Universidad Nacional de Tierra del Fuego in Ushuaia); Prof. Ricardo J. Sureda (Universidad Nacional de Salta); and Dr. Eduardo O. Zappettini (Servício Geológico Minerao Argentino in Buenos Aires). The book will be launched during the Prospectors and Developers Association meeting to be held 6–9 March 2016 in Toronto, Ontario (Canada).

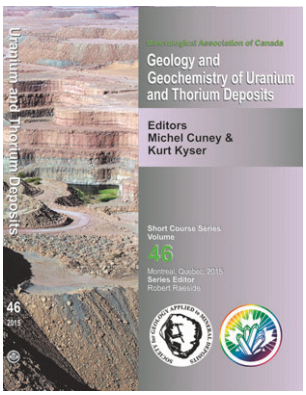
Thematic Issue of the Canadian Mineralogist



This thematic issue of the *Canadian Mineralogist* (March 2015, volume 53, number 2) is a collection of 15 papers that honor Research Professor Edward S. Grew (University of Maine) on the occasion of his 70th birthday. Ed has been well-known to professional mineralogists and geologists for several decades. In his prolific career, he contributed to several disciplines within the geological sciences. He was chair of the nomenclature committee for the sapphirine and surinamite groups (2008) and chair of the subcommittee for the nomenclature of the garnet supergroup (2013). He was extensively involved in the crystal chemistry of the kornerupine–prismatine series with Mark Cooper and Frank Hawthorne at the University of Manitoba (2009). Arguably, Ed is most famous for his work on beryllium and boron geochemistry and mineralogy. He was editor of the huge Reviews in Mineralogy and Geochemistry volumes on boron (1996, volume 33) and beryllium (2002, volume 50), and he has significantly contributed to our understanding of the granulite facies and the boron and beryllium mineralogy and petrology of Antarctica. Most recently, he has collaborated with Robert M. Hazen of the Geophysical Laboratory at the Carnegie Institution of Washington (USA) on the mineral evolution of beryllium and boron.

In this thematic issue, a tribute to Ed by Roy Kristiansen of Norway is followed by papers bearing on themes dear to Ed and provided by colleagues and collaborators. Check the table of contents at www.canmin.org.

Short Course Volume 46: Geology and Geochemistry of Uranium and Thorium Deposits



This volume highlights the research that can be integrated into refining exploration strategies for uranium. It also discusses thorium deposits as a future energy resource, as thorium will become an increasingly important by-product of REE mining.

MAC UNDERGRADUATE AWARDS

Congratulations to the following students from Canadian universities who received MAC undergraduate awards for the 2014–2015 school year:

Hayley Angel Marie Arts (Carleton University)
Cameron Bessey (University of Waterloo)
Austin Davidson (Brock University)
Eric A. Garcelon (University of New Brunswick)
Andre Mark Gollner (University of British Columbia)
Thomas E. Gore (Laurentian University)
Maya T. LaGrange (University of Alberta)
Dillon K. Langelaan (Acadia University)
Britney Laturnus (University of Regina)
Eleanor D. McAuley (Queen's University)
Charles-Elie Mercier (Université Laval)
Doug Nikkila (Lakehead University)
Laura F. Nymeyer (University of Victoria)
Lori E. Paslawski (St. Francis Xavier University)
Adam D. Skoyles (University of Windsor)
Kassandra Sofonio (McGill University)
Courtney Stange (Mount Royal University)
Neera Sundaralingam (Western University)
Karolan Tremblay (Université du Québec à Chicoutimi)
Christopher R. Voisey (Memorial University of Newfoundland)