

Preface

Geological Fieldwork 2016

The 42nd edition of Geological Fieldwork is a volume of peer-reviewed papers that present the results of geological research conducted by the British Columbia Geological Survey (BCGS) and its partners in 2016. The volume is a key publication of the BCGS because it provides objective and up-to-date geoscience information at no cost to the public. Many geoscience projects in 2016 were collaborative efforts with partners including the Geological Survey of Canada (GSC), the University of Victoria, the Geological Survey of Japan, Geoscience BC and the Mineral Deposit Research Unit (MDRU) at the University of British Columbia.

Papers in the volume address various aspects of British Columbia's geology, with an emphasis on regional geological studies and associated mineral systems. Papers also include site-specific investigations of mineral deposits and their local geological features. Collaboration between the BCGS and the GSC focused on the second iteration of the five-year Geo-mapping for Energy and Minerals program (GEM 2) and the fifth iteration of the Targeted Geoscience Initiative (TGI-5) program. The GEM 2 program saw Survey geologists investigating the bedrock geology and crustal architecture of northern BC in order to better understand the genesis and distribution of Jurassic and Triassic porphyry copper-gold-molybdenum deposits. The TGI-5 projects ramped up in 2016 and included an investigation of the relationship between gold deposits, magmatism and the Llewellyn fault in northwest BC, specialty metals at the Rock Canyon Creek deposit in southeast BC, and Ni-Cu-PGE-Cr deposits associated with Alaskan-type ultramafic-mafic intrusions.

The Survey delivered a workshop, field trip, and special session on using indicator minerals in Cordilleran exploration, in partnership with the Yukon Geological Survey and the GSC, at the 2016 Geological Association of Canada-Mineralogical Association of Canada (GAC-MAC) annual meeting in Whitehorse. A collection of papers from the workshop will be released as a joint GAC-MAC publication at the 2017 GAC-MAC meeting in Kingston, Ontario. The volume will be the inaugural publication in the new "Topics in Minerals Science" series by the MAC.

January 2016 marked the second year of the 'BC Pavilion' at the Vancouver Convention Centre, the home of the Mineral Exploration Roundup. The Pavilion affords the Survey and its sister government agencies the opportunity to present program highlights and new geoscience information in addition to assisting delegates with permitting and tenure issues. In 2017, the Pavilion will be part of the new 'Passport to Explore' floor, a themed space hosting Canadian provincial and territorial geological surveys and several US state geoscience agencies. The BCGS led designing the floor and developing its technical program, which includes oral sessions that highlight new public geoscience.

MapPlace 2 was launched in November at the annual BCGS Open House in Victoria. MapPlace 2 replaces the original MapPlace, which was developed in 1995 as a web service to help clients browse, visualize, and analyze geoscience and mineral resources data. MapPlace 2 is easier to use, has much improved functionality and performance, can be used on either a Mac or a PC, does not require plug-ins, and works in most web browsers. The power of MapPlace 2 derives from databases that 'talk' to each other, enabling users to conduct queries and generate custom results by connecting many data sources.

The Survey was strengthened in 2016 by the addition of Gabe Fortin and Dejan Milidragovic. Gabe joins us as a Geomatics Geologist focused on advancing MapPlace 2 and Dejan is a Senior Project Geologist specializing in Ni-Cu-PGE metallogeny and ultramafic-mafic rocks. Congratulations also go out to JoAnne Nelson, a 30-year veteran of the BCGS and recipient of a Special Tribute by the Association for Mineral Exploration in recognition of her distinguished career in geoscience work focused on Cordilleran tectonics and metallogeny.

Finally, 2016 ended on a sad note with the passing of Dr. Atholl Sutherland Brown. Atholl served as British Columbia's 8th Chief Geologist (1975-1984) and was instrumental in advancing Canadian geoscience and building the BCGS that exists today.



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