

Foreword

Geological Fieldwork 2013

This is the thirty-ninth edition of **Geological Fieldwork**, 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 2013. The papers address different aspects of British Columbia's geology, with many highlighting the enormous mineral wealth of the Province. The annual Geological Fieldwork publication is one way that the BCGS helps to unlock this mineral wealth by providing comprehensive, objective, and up-to-date geoscience information, advice, and knowledge to the minerals industry.

Following the spring election in 2013, the new government of British Columbia reorganized the natural resource sector ministries. The Ministry of Energy, Mines and Natural Gas (MEMNG) was split into two separate ministries: the Ministry of Energy and Mines (MEM) and the Ministry of Natural Gas Development (MNGD). The BCGS remained with MEM as did the five geologists that deliver the Regional Geologists Program.

British Columbia Geological Survey activity highlights

Research

- Fieldwork continued on four projects that are part of the GSC's Targeted Geoscience Initiative program (TGI-4).
- New initiatives with various partners on porphyry deposits in the Nicola arc and the Stewart-Treaty Glacier corridor.
- New geochemical initiative on indicator minerals with a joint team of five researchers from the School of Earth and Ocean Sciences (University of Victoria) and the BCGS.
- BCGS geologists published nine Open Files, five GeoFiles, three Information Circulars, twenty one interagency publications, and thirteen external papers. BCGS alumni continued to publish their research, including a GeoFile by Roger Paulen and Ray Lett that presents geochemical results from gossans in the Kootenay, Slide Mountain, and Quesnel terranes, and an encyclopedic review of skarns in the Canadian Cordillera by Gerald Ray, about which one client remarked "... without question a landmark work... will be the "go-to" source for those wanting to know what skarns are all about ... will serve as "the" reference for skarns for a long, long time."
- Publication of a fieldtrip volume that included papers on porphyry deposits of central and southern BC as part of the Society of Economic Geologists (SEG) annual meeting in Whistler.

Outreach at conferences and workshops

- Survey geologists presented at conferences and workshops including Roundup, PDAC, SEG, KEG, GACMAC, NWMA, GSA, Goldschmidt, International Applied Geochemistry Symposium, Minerals South, Minerals North, and the Smither's Rock Talk.
- The BCGS co-hosted the annual Canadian Tectonics Group meeting in Victoria as part of the BCGS Open House. This three-day meeting attracted over 150 geoscientists who delivered 22 oral presentations and 24 posters. It wrapped up with a field trip of the boundary between the Leech River gneiss (Pacific Rim terrane) and the Metchosin Igneous complex (Crescent terrane) near Victoria.
- Staff of the BC Mineral Development Office in Vancouver hosted various investor delegations and participated in the Asia Investment Mission, which included the China Mining Conference in Tianjin, China.

Data archiving and access

- Users can now access over 33,470 company mineral assessment reports using the online ARIS database.
- The Property File database now features more than 50,200 documents online.
- MINFILE continues to expand: 4300 occurrences were updated and 1366 were added.

Renewal

- Refurbishment of the Survey's in-house geochemical laboratory was completed with the construction of the mineral separation line by the addition of a Bico disc pulverizer and a Wilfley shaking table.

Awards

- JoAnne Nelson (BCGS Northern Manager) was included in the 2013 list of the "Top 100 Inspirational Women in Mining" by the organization Women in Mining (UK).
- The 2012-2013 Fraser Institute's global ranking of geological databases ranked MapPlace third. Since 2005, MapPlace has consistently been listed in the top ten, including two first place rankings.

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