

TH/
E 18/g

Advancing Science and Discovery Since 1905

Economic Geology

BULLETIN OF
THE SOCIETY
OF ECONOMIC
GEOLOGISTS

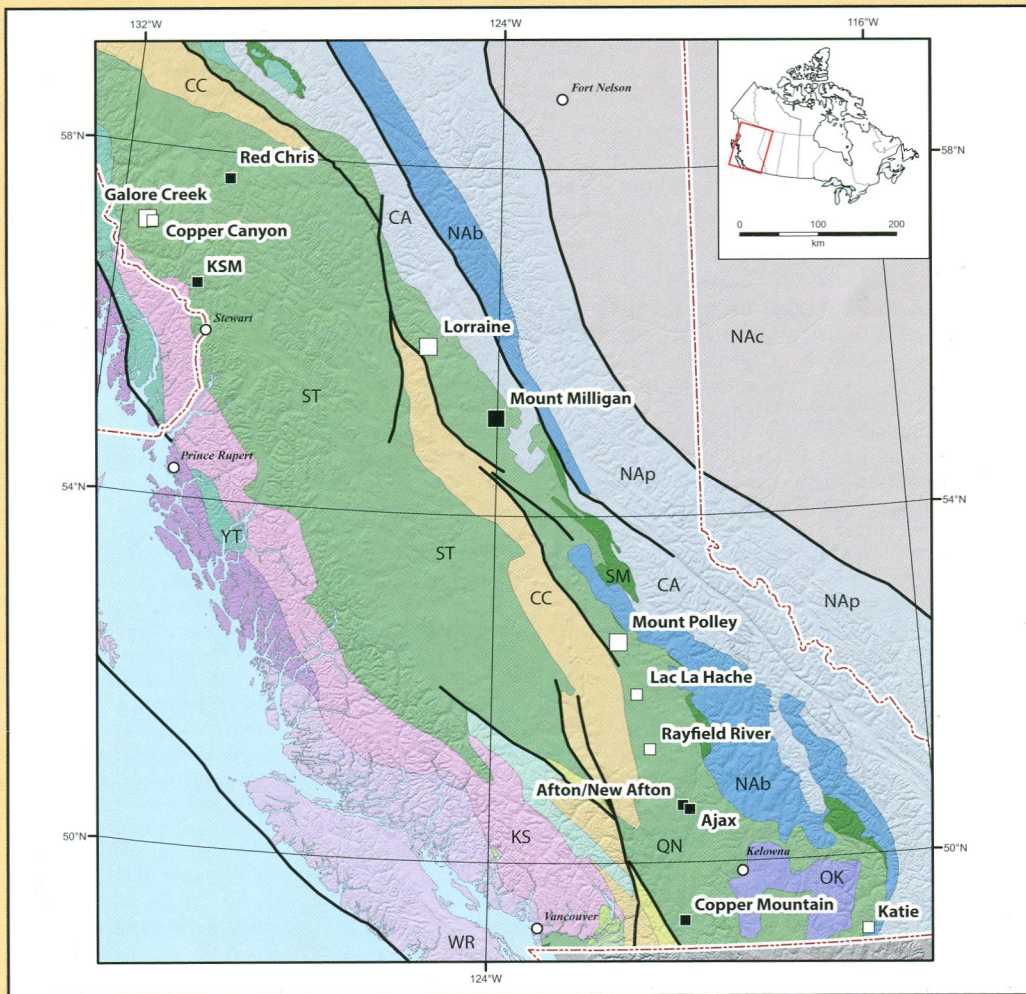


www.segweb.org

JUNE-JULY 2014

VOLUME 109 / NUMBER 4

ALKALIC PORPHYRY Cu-Au DEPOSITS, BC, CANADA



IN THIS ISSUE

- Alkalic Porphyry Cu-Au and Epithermal Au Deposits
- Tectonics of Canadian Cordillera
- Mount Polley Deposit, BC, Canada
- Galore Creek Deposit, BC, Canada
- SW Zone Deposit, BC, Canada
- Lorraine Alkalic Porphyry Cu-Au Deposit, BC, Canada
- Lower Main Zone, Lorraine Deposit, BC, Canada
- Mt. Milligan Deposit, BC, Canada
- E26 Deposit, NSW, Australia
- Endeavour 42 Deposit, NSW, Australia
- Endeavour 41 Prospect, NSW, Australia
- Volcanosedimentary Host Rocks, Cadia, Australia
- Ladolam Au Deposit, Lihir Island, PNG

CONTENTS

A Special Issue Devoted to Alkalic Porphyry Cu-Au and Epithermal Au Deposits

Guest Editors: Thomas Bissig and David R. Cooke

Papers

- Introduction to the Special Issue Devoted to Alkalic Porphyry Cu-Au and Epithermal Au Deposits** *Thomas Bissig and David R. Cooke* 819
- Tectonic Controls on Early Mesozoic Paired Alkaline Porphyry Deposit Belts (Cu-Au ± Ag-Pt-Pd-Mo) Within the Canadian Cordillera** *James M. Logan and Mitchell G. Mihalynuk* 827
- Isotope Geochemistry of the Northeast Zone, Mount Polley Alkalic Cu-Au-Ag Porphyry Deposit, British Columbia: A Case for Carbonate Assimilation** *Heidi E. Pass, David R. Cooke, Garry Davidson, Roland Maas, Greg Dipple, Chris Rees, Lee Ferreira, Chris Taylor, and Cari L. Deyell* 859
- Hydrothermal Alteration and Mineralization of the Galore Creek Alkalic Cu-Au Porphyry Deposit, Northwestern British Columbia, Canada** *Janina Micko, Richard M. Tosdal, Thomas Bissig, Claire M. Chamberlain, and Kirstie A. Simpson* 891
- Genesis of the Late Triassic Southwest Zone Breccia-Hosted Alkalic Porphyry Cu-Au Deposit, Galore Creek, British Columbia, Canada** *Kevin Byrne and Richard M. Tosdal* 915
- Geology and District-Scale Setting of Tilted Alkalic Porphyry Cu-Au Mineralization at the Lorraine Deposit, British Columbia** *Fionnuala A.M. Devine, Claire M. Chamberlain, Andrew G.S. Davies, Richard Friedman, and Paul Baxter* 939
- Mineralization, U-Pb Geochronology, and Stable Isotope Geochemistry of the Lower Main Zone of the Lorraine Deposit, North-Central British Columbia: A Replacement-Style Alkalic Cu-Au Porphyry** *Adam B. Bath, David R. Cooke, Richard M. Friedman, Kevin Faure, Vadim S. Kamenetsky, Richard M. Tosdal, and Ron F. Berry* 979
- Vertical and Lateral Variation of Mineralogy and Chemistry in the Early Jurassic Mt. Milligan Alkalic Porphyry Au-Cu Deposit, British Columbia, Canada** *C. Paul Jago, Richard M. Tosdal, David R. Cooke, and Anthony C. Harris* 1005
- Quartz Vein Emplacement Mechanisms at the E26 Porphyry Cu-Au Deposit, New South Wales** *Anthony C. Harris and Rodney J. Holcombe* 1035
- Structural Evolution of Auriferous Veins at the Endeavour 42 Gold Deposit, Cowal Mining District, NSW, Australia** *Amber D. Henry, Paul McInnes, and Richard M. Tosdal* 1051
- Genesis and Exploration Implications of Epithermal Gold Mineralization and Porphyry-Style Alteration at the Endeavour 41 Prospect, Cowal District, New South Wales, Australia** *Wojciech Zukowski, David R. Cooke, Cari L. Deyell, Paul McInnes, and Kirstie Simpson* 1079
- Marine Volcanosedimentary Basins Hosting Porphyry Au-Cu Deposits, Cadia Valley, New South Wales, Australia** *Anthony C. Harris, Ian G. Percival, David R. Cooke, Richard M. Tosdal, Nathan Fox, Charlotte M. Allen, Ian Tedder, Colin McMillan, Paul Dunham, and Dean Collett* 1117
- Lithofacies Associations and Evolution of the Volcanic Host Succession to the Minifie Ore Zone: Ladolam Gold Deposit, Lihir Island, Papua New Guinea** *Jacqueline L. Blackwell, David R. Cooke, Jocelyn McPhie, and Kirstie A. Simpson* 1137

Book Review

- L'Or à Travers les Âges: Une Histoire Pas Toujours Dorée (Gold Through Times: Not Always a Golden Story) (Pierre J. Gossens)** *Georges Beaudoin* 1161

Interesting Papers in Other Journals

- Instructions to Authors, 2014 (Revised)** 1163

SOCIETY OF ECONOMIC GEOLOGISTS

SEG 2014 Conference

1170