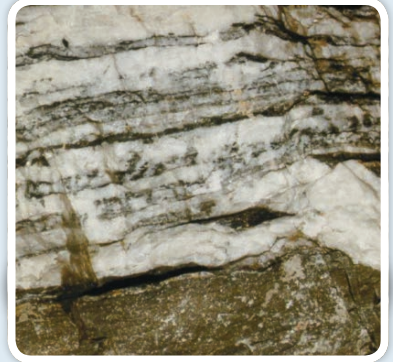




SEG at PDAC 2017

World-Class Gold Deposits: How Do They Form and What Do We Need to Know to Find Them?

Organizer: Society of Economic Geologists (SEG)
Two days: Friday, March 3, 2017 | 8:00 AM - 5:00 PM
Saturday, March 4, 2017 | 8:00 AM - 5:00 PM
Location: Toronto, Ontario, Canada



DESCRIPTION

This two-day-long workshop will focus on the most widespread mineral deposit types that host much of the current global gold resource. Leading experts will provide descriptions of some of the most important Precambrian and Phanerozoic examples of gold deposit types formed in island and continental arcs, evolving metamorphic belts, and seafloor settings.

Detailed material will be provided on tectonic and structural controls, geological characteristics, geochemical and geophysical signatures, geochronological relationships, and exploration strategies. Specific settings in the geological record, both in space and time, will be compared and contrasted to indicate what type of gold resources are likely to be discovered in various provinces.

Case studies will document key features that have led to successful discovery of deposits. The course is aimed at geoscientists from both industry and academia, as well as students of economic geology who desire a comprehensive understanding of modern concepts on the geology of gold deposits. Emphasis will be on the characterization of deposits representative of the following types:

- Orogenic gold deposits
- Low and high sulfidation epithermal gold deposits
- Gold-rich porphyry deposits
- Intrusion-related gold systems
- Volcanogenic massive sulfide ores

PRESENTERS



Richard Goldfarb, Colorado School of Mines & China University of Geosciences

Richard was a research geologist with the Minerals Program of the U.S. Geological Survey for 35 years. His expertise is in the geology and geochemistry of orogenic gold deposits, regional metallogeny of the North American Cordillera and of China, and tectonic controls on mineral deposits. He has senior- and co-authored more than 220 refereed publications in *Economic Geology*. Rich currently is a research professor at the Colorado School of Mines and the China University of Geosciences Beijing, as well as a global consultant on the exploration for gold resources in metamorphic environments (rjgoldfarb@mac.com).



Stuart Simmons, University of Utah, Earth and Geoscience Institute

Stuart is a research geoscientist at EGI-University of Utah and a consulting geoscientist, with >30 years' experience in hydrothermal processes, epithermal mineralization, and geothermal resources. Much of his professional career was spent in New Zealand, at the Geothermal Institute, University of Auckland. As a consultant, Stuart serves clients around the Pacific Rim in the exploration and development of gold-silver and geothermal resources (website: www.hotsolutions.co.nz).



Thomas Monecke, Colorado School of Mines

Thomas's focus is on the formation of base and precious metal deposits in modern and ancient volcanic arcs. He has more than 20 years' experience in research and mineral exploration and has authored or co-authored approximately 80 journal papers, book chapters, government publications, and field guides. Thomas holds a Ph.D. from the University of Freiberg, Germany and did postdoctoral research at the Institute of Marine Sciences in Kiel, Germany, the University of Ottawa, and the Geological Survey of Canada. Thomas received the 2006 Waldemar Lindgren Award from SEG and in 2008, he joined the Colorado School of Mines, where he currently teaches economic geology.

REGISTER at

www.segweb.org/events#17PDACSEG

ATTENTION SEG MEMBERS

You must complete the SEG Member Registration Form to receive the member rate for this workshop. No discounts are offered on PDAC 2017 registration. www.segweb.org/17PDACSEG-Form

Level of Comprehension: Intermediate

Course Fee (including course material, continental breakfast, three-course lunch, and refreshments):

Early Registration

(through February 3, 2017)

PDAC or SEG Member: C\$799
Non-member: C\$899
Student Member: C\$399

Late Registration

(after February 3, 2017)

PDAC or SEG Member: C\$999
Non-member: C\$1,099
Student Member: C\$399