



CIM Thunder Bay Branch, the Centre of Excellence in Sustainable Mining and Exploration and the Centre for Exploration Targeting are pleased to offer a short course in



New concepts in understanding high-grade ore shoots

Friday March 6, 2015,
Masonic Hall, 1600 Dease St., Thunder Bay, Ontario



Professor T. Campbell McCuaig (FSEG, MAusIMM, MSGA), Director and Professorial Fellow of the Centre for Exploration Targeting at the University of Western Australia and Adjunct Professor at Lakehead University, will be offering a short course in **New concepts in understanding high-grade ore shoots** on March 6, 2015.

Trends in society, the market and the mineral industry are redefining what is considered ore, and driving a focus onto quality of ore rather than scale and quantity of ore. This course reviews the current paradigm for understanding the formation of high-grade ore shoots, highlighting the shortcomings of this understanding in predicting and exploring for further high-quality ore. Recent advances in understanding the geodynamics of mineral systems are significantly changing our understanding of the physical processes of high-quality ore shoot formation, and have the potential to improve how we predict and detect high-quality ore bodies. During the course, these advances and emerging concepts will be explained and applications to exploration targeting (integrating geology, structure, geochemistry and geophysics) across a range of scales will be discussed. Although many examples will be taken from gold mineral systems, a range of commodity types will be covered, including sediment-hosted, epithermal, VMS, porphyry and orthomagmatic NiS mineralization styles. This course will be beneficial for mine geologists responsible for effective delineation of ore in operations, through to regional exploration geologists exploring for further high quality ore bodies.

Professor McCuaig received his BSc (Hons) from Lakehead University in Thunder Bay, Ontario, and his PhD from the University of Saskatchewan in Saskatoon, where he specialized in gold deposits. He subsequently joined SRK Consulting (then Etheridge Henley Williams) in 1996. In 9 years with SRK, he served as a Principal Consultant, Chairman of the Principal's Group (strategy group for SRK Australasia), and as a Director of the company. He has over 21 years experience in understanding ore systems. An internationally recognized expert in mineral systems, he has been invited to speak worldwide at many conferences and short courses on aspects of hydrothermal alteration, orebody genesis, geology applied to mining and exploration strategies, and links between industry and research in economic geology. He has worked on 6 continents in varied deposit types including sulphide nickel, orogenic gold systems (Archean to Eocene), porphyry Cu, Cu-Au, Cu-Au-Mo, Archean VMS, polymetallic skarns, epithermal Au, IOCG and sediment-hosted Cu. Cam has also worked at all stages of projects from greenfields exploration to mining, including substantial involvement in due diligence and feasibility studies. In 2005, Professor McCuaig became Director of the Centre for Exploration Targeting, a joint venture between the minerals industry, the University of Western Australia, Curtin University of Technology and the government of Western Australia.

Registration Fees
(including coffee breaks, lunch and all course materials):

\$200 for Professionals / \$50 for students

Please complete the attached registration form and return it with your cheque (payable to CIM Thunder Bay Branch) to:

Thunder Bay Branch CIM
% Resident Geologist's Office, Ontario Geological Survey
Ministry of Northern Development and Mines
Suite B002, 435 James St. South
Thunder Bay ON P7E 6S7 CANADA

Delegates are advised to confirm their attendance with payment as soon as possible to avoid disappointment.

For more information, contact either Mark Smyk (807-475-1331, mark.smyk@ontario.ca) or Pete Hollings (807-343-8329, peter.hollings@lakeheadu.ca).

CIM Thunder Bay Branch and The Centre for Exploration Targeting
New concepts in understanding high grade ore shoots
Short Course
March 6, 2015, Thunder Bay, Ontario

Registration Form

Name _____

Affiliation /

Address _____

Phone # _____

Fax # _____

Email _____