



Lars-S. Crede

Work Address: Department of Applied Geology,
Bentley Campues, Kent St, Bld 312

Phone: -

Email: l.crede@postgrad.curtin.edu.au



Brief Summary

Lars Crede did his BSc and MSc at the Leibniz University in Hanover, Germany. He focused on the experimental determination of the viscosity of melts at high T and P (BSc), the diffusion of major and trace elements between basaltic melts and olivine; experiments performed in a gas mixing furnace (MSc), and the behaviour of sulfur in basaltic melts via IHPV experiments and synchrotron measurements.

The goal of his PhD is to determine the importance of organic matter as an ore fluid for gold, as organic matter is often associated with metals such as gold in hydrothermal ore deposits. This is achieved by developing a new method to perform partition experiments of gold between an oil and aqueous fluid at hydrothermal conditions, by XAS (synchrotron) experiments to determine the type of gold transport in oil (Au speciation and molecular bonds), and by studying ore samples from the gold-mercury McLaughlin deposit in California.

Education: Leibniz Universität Hannover, Germany (BSc and MSc)

Research interests: Metal behaviour from low to high T and; Association of ores and organic matter; experimental studies

Thesis title: Gold transport in aqueous versus organic fluids: Experimental data for describing ore forming systems

Supervisors: K. Rempel and K. Evans

Links: https://www.xing.com/profile/Lars_Crede