

Phase equilibrium modelling: approaches and pitfalls

Organizers: D. Pattison (U Calgary), D. Tinkham (Laurentian U) & J. Forshaw (U Calgary)

Pre-meeting workshop - 1 day: Sunday May 10, 2020

All practicing and up-and-coming metamorphic geoscientists need to have a nuanced understanding of the potential and the pitfalls of modern phase equilibrium modelling. The aim of the workshop is to present and discuss (1) the most commonly-used phase equilibrium modelling software packages currently available (THERMOCALC, Perplex, Theriak-Domino), focusing on their capabilities and pros/cons, and (2) the factors influencing the reliability of phase equilibrium modelling, including thermodynamic database/a-X models, effective bulk composition, and kinetics. The workshop will comprise eight approximately one-hour sessions of which one third to one half of each session is dedicated to discussion. Workshop materials provided to participants will be electronic copies of presentation slide decks and reference lists (there will be no hard copy workshop volume).

Enrollment cap for workshop: 25 attendees

Cost of workshop: \$CAD 175

What's included: e-copies of presentation materials; breakfast, lunch, morning/afternoon coffee

Time and location: 08:00-18:00 Sunday May 10, 2020; Dept. Geoscience, U. Calgary (details TBA)