

**Modular Course in
Mineral Systems and Ore Deposit Exploration Strategy
December 9-17, 2017**

Department of Earth Sciences
Western University, London Ontario

Open to Graduate Students at Ontario Universities and
Industry Participants (for Professional Development Credit)

Format:

9:00-12:00 Lecture Sessions, attendance can either be in person or digitally with a live internet connection
1:00-5:00 Practical Sessions and the Introduction to ioGAS, is restricted to in person attendance

Lecture Sessions (initials of presenter in brackets):

December 9 - Module 1 (PCL): Introduction to ioGAS
December 10 - Module 2 (PCL): Introduction to exploration and mineral industry global driving forces
December 11 - Module 3 (PCL): Introduction to mineral systems
December 12 - Module 4 (PCL): Regional and local structural controls on magmatic sulfide ore deposits
December 13 - Module 5 (PCL): Application to exploration and project development decision process
December 14 - Module 6 (RL): Critical metals (Li-Cs-Ta) in orogenic environments
December 15 - Module 7 (RL): Critical metals (REE) in rift/hot spot environments
December 16 - Module 8 (MB & PT): Mineral systems of orogenic gold systems. Part 1.
Tectonic/Metamorphic settings
December 17 - Module 9 (RL): Mineral systems of orogenic gold systems. Part 2. Role of host lithologies

Practical Sessions (includes hand sample, thin section and data manipulation problems)

December 10 – Module 2 (PCL): Voisey's Bay
December 11 - Module 3 (PCL): Noril'sk-Talnakh
December 12 - Module 4 (PCL): Jinchuan, Hong Qi Ling, Karatungk, Huangshandong
December 13 - Module 5 (PCL): Sudbury
December 14 - Module 6 (RL): Tanco and Separation Rapids pegmatites
December 15 - Module 7 (RL): Nechalacho
December 16 - Module 8 (MB & PT): Structure and Metamorphism at the Young-Davidson deposit
December 17 - Module 9 (RL): Mineralization and Alteration of the Timmins Camp

Presenters

Peter C. Lightfoot (Lightfoot Geoscience & Adjunct Associate Professor, Department of Earth Sciences,
Western University)
Robert Linnen (Professor, Department of Earth Sciences, Western University)
Marc Bardoux (Barrick Gold)
Peter Thompson (Peter H Thompson Geological Consulting)

Costs for Industry Participants

Modules 2-9: in person \$1200, \$500 digitally
Modules 2-5 (Ni Deposits) \$800 in person, \$300 digital participation
Modules 6-7 (Critical Metals) \$300 in person, \$150 digital participation
Modules 8-9 (Orogenic Au) \$300 in person, \$150 digital participation

for Additional Information Contact Robert Linnen rlinnen@uwo.ca