

GEOL 5607(W2019): Hydrothermal Ore Deposits: Genesis and Exploration

Date	Topic	Speaker	9:00–10:30, ELC	11:00–12:30, ELC	13:30–15:00, ELC or B5062	15:30–17:00, ELC or B5062
Sat April 6	Hydrothermal processes; Sampling, analyses	Jeremy Richards	Introduction; Hydrothermal ore-forming processes	Hydrothermal ore-forming processes	Data handling and processing; errors	Lab tour
Sun April 7	VMS	Steve Piercey				Lab
Mon April 8	Porphyry-epithermal deposits	Jeremy Richards	Arc tectonics	Arc magmatism	Arc magmatism	Lab
Tues April 9	Porphyry-epithermal deposits	Jeremy Richards	Porphyry ore-formation	Porphyry ore-formation	Epithermal ore-formation	Lab
Wed April 10	Field day	Dan Kontak / Jeremy Richards	Fieldwork	Fieldwork	Fieldwork	Fieldwork
Thurs April 11	U	Mostafa Fayek	The Uranium Geochemical Cycle	Geochronology of Uranium Deposits	Unconformity and Roll-front Uranium Deposits	Lab
Fri April 12	IOCG	David Burrows	IOCG deposits: Introduction, examples and models	IOCG deposits in South America	Lab: Sample suites from Carajas, Cloncurry, Chile and Olympic Dam	Lab Continued
Sat April 13	REE	Lee Groat	Introduction to REEs	Global sources of REEs	REE exploration	Lab
Sun April 14	Orogenic gold	Dan Kontak				Lab
Mon April 15	Sediment-hosted base-metal deposits	Jeremy Richards	MVT and Sedex deposits	Stratiform Cu deposits	Stratiform Cu deposits	Lab