Session 3: Leaching process modelling: from laboratory data to design of reactors and heaps

Organizer: David Dixon

Date: Thursday October 22, 2020

Registration: **Register Here** by October 20

Outline: Proper determination of metal extraction kinetics is central to the success of any hydrometallurgical operation. This short course is designed to help you collect data from laboratory leaching tests, develop kinetic models based on the leaching data collected, and apply the models to reactor and heap design. This course will cover: (1) Fundamentals of batch leaching rate laws and design of leaching tests to quantify the effect of thermal and chemical factors on reaction rate; (2) Case studies of chalcocite, pyrite, and chalcopyrite leaching demonstrating how to develop kinetic models using leaching data collected; (3) Statistical leaching reactor models for sizing of leaching reactors.

Agenda:

Topic	Time	Instructor
Fundamentals of sulfide leaching kinetics	8:30 - 9:15 AM	Wenying Liu
Batch Leaching case studies	9:30 - 10:15 AM	David Dixon
Sizing of leaching reactors	10:30 - 11:15 AM	David Dixon