Session 4: Tailings dewatering and management

Organizer: Marek Pawlik

Date: Thursday October 29, 2020

Registration: Register Here by October 27

Outline: Tailings dewatering becomes increasingly important given the increased scrutiny and pressure to improve the management of tailings. This short course will cover both fundamental knowledge and the industry perspectives on tailings management. The fundamentals include colloidal stability of tailings, the effect of pH/different parameters on surface charges of particles (clay), and challenges of liquid-solid separation; mechanisms by which polymer flocculants adsorb onto particle surfaces; and how the adsorption of polymers affects particle surface properties, reduction in repulsive forces between clay particles, rheology, and zeta potential measurements. The industry perspective covers various aspects of tailings management in different geotechnical, climate, and social conditions.

Agenda:

Topic	Time	Instructor
Fundamentals on colloidal stability and polymer flocculants	8:30 - 9:15 AM	Marek Pawlik
Fundamentals on solid-liquid separation	9:30 - 10:15 AM	Marek Pawlik
Industry perspectives in tailings management	10:30 - 11:15 AM	Harvey McLeod