

Session 2: Pyrometallurgical processing of copper: smelting, converting, gas injection, and SO₂ processing

Organizer: Leili Tafaghodi

Date: Thursday October 8, 2020

Registration: [Register Here](#) by October 6

Outline: Copper production from primary resources is mostly from ores containing Cu–Fe–S minerals and the majority of these ores are treated by smelting. The pyrometallurgical processing of copper has evolved and varies depending on the charge materials, the process and its operating parameters, and the shape and size of the vessel. Plant operations also vary in terms of air/oxygen injection practices. With continuous improvements of the environmental regulations, handling the furnace off-gas which contains SO₂ has become increasingly important. The short courses in pyrometallurgical processing of copper cover: (1) Smelting and converting technologies and the process variations; (2) Gas injection in bath smelting focusing on the development of sonic injection; and (3) Production of SO₂ and sulphuric acid in metallurgical and chemical industries.

Agenda:

Topic	Time	Instructor
Copper making technologies from fundamentals to operations	8:30 - 9:15 AM	Gerardo Alvear
Gas injection in bath smelting and converting	9:30 - 10:15 AM	Joel Kapusta
Production of SO ₂ and Sulphuric Acid	10:30 - 11:15 AM	Werner Vorster/ Erin Kwan