

Environmental Geochemistry of Mine Waste, Ore Dressing, and Geometallurgy

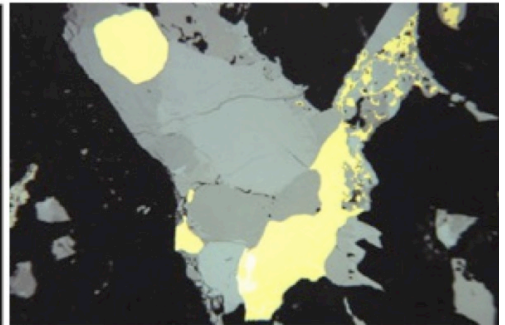
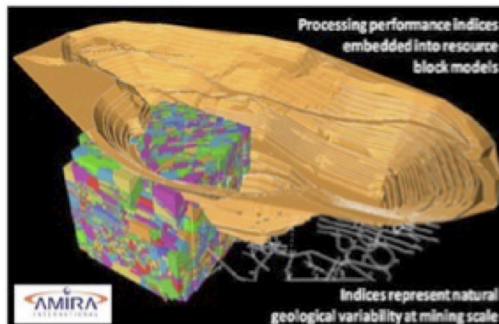
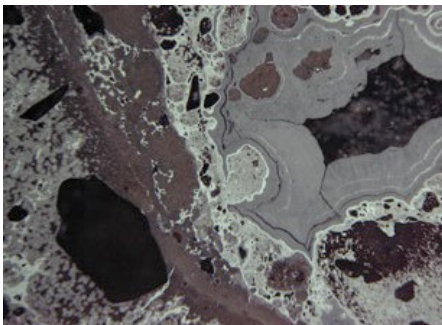
Dr. Bernhard Dold (President of SUMIRCO - Sustainable Mining Research & Consultancy, Chile)

Dr. Regina Baumgartner (Senior Geoscientist, Gold Fields Exploration, Inc.)

Dr. Rainer W. Lehne (Consultant at Lehne & Associates : Applied Mineralogy, Mannheim, Germany)

Monday, 15th - Tuesday, 16 December 2014, Friday 9th January 2015

(15 Dec., room 605, 9h15-17h00, 16 Dec. room 201, 10h30-18h00, 9th Jan., r. 605+B23, 9h15-17h.00)



Part I: Environmental Geochemistry of Mine Waste

Dr. Bernhard Dold (15-16 Dec)

- Geochemical reactions associated with the management of wastes from mining and milling operations.
- Review of aquatic chemistry
- Summary of the environmental geochemistry of ore deposits
- Application of these principles to understanding water quality problems in tailings disposal facilities, pit lakes, waste rock piles, and mine drainage.

Part II : Geometallurgy

Dr. Regina Baumgartner (16 Dec)

- Geometallurgy: integrating geology, mineralogy, metallurgy and mine planning to improve fundamental understanding of resource economics and viability.
- Business strategy behind geometallurgy
- Sampling, data interpretation
- Use of ore dressing in geometallurgy
- Environmental aspects of geometallurgy
- Building spatial models

Part III : Ore Dressing

Dr. Rainer W. Lehne (9th Jan)

- Gold ores and their metallurgical treatment
- Microscopy of gold ores with regard to their treatment
- Base metal ores and their beneficiation
- Specific tasks of ore microscopy in mineral dressing
- Microscopy of base metal ores and milling products

The course takes place at Department of Earth Sciences, University of Geneva, Rue des Maraîchers 13, CH-1276 Geneva, Switzerland, contact: lluis.fontbote@unige.ch

Registration is open on the website <http://mineral.cuso.ch/courses-and-meetings/>

Only for day 3: Maximum 15 participants (limitation due to microscope equipment)