Life Cycle Assessment for Mining and Minerals Industry

Mining, minerals and base metals industry has a significant impact on the environment. This course will focus on qualitative causes and effects, but also gives tools to define quantitative environmental footprint values of the processes.

DATE AND VENUE

Tuesday February 7, 2016 at Perth
CSIRO Mineral Resources (Len Warren Room), 7 Conlon Street, Waterford WA 6152, Australia

AGENDA - MELBOURNE

9:30 a.m. Arrival and coffee, Registration
10:00 – 10:10 Dr Nawshad Haque (Team Leader, CSIRO): Welcome & introduction.
10:10 – 10:15 Dr Chris Vernon (Program Director, PAO) welcoming on behalf of CSIRO.

10:40 – 11:00 Tea/coffee break

LCA Case Studies I
11:00 – 11:30 Dr Nawshad Haque (CSIRO): LCA for mining, mineral processing and metal production – current status and future directions.
11:30 – 12:30 Dr Antti Roine (Technical Director, Modelling and Simulation, Outotec): (i) Integration of flowsheet with LCA using HSC Chemistry® process modeling software and (ii) Silver refining case.

12:30 – 1:30 p.m. Lunch break

LCA in mining: presentations and discussion
1:30 – 2:30 Prof Dr Markus Reuter - HSC Sim 9 / GaBi - Industrial cases from metal production (Cu, Zn, Pb, Ni) to recycling and design for recycling (LED lamps, mobile phones).
2:30 – 3:00 Associate Professor Michele Rosano (Sustainable Engineering Group, Curtin University): LCA for resources industries: example of tailing management.

3:00 – 3:30 Coffee/tea break
3:30 – 4:30 Discussion chaired by Dr. Roine: How can the mining sector maximize the benefits of LCA - what stands in the way? Identification of opportunities and challenges. What has industry done to meet environmental requirements?

4:30 pm Close

Further Contact: Nawshad.Haque@csiro.au or 0434141506