

PROGRAMME

Konferens i Mineralteknik Conference in Minerals Engineering

4-5 February 2020 ■ Stadshusets plenisal, Luleå City Hall

Mineralteknik/Mineral Processing

ltu.se/minpro

PROGRAMME – CONFERENCE IN MINERALS ENGINEERING 2020

Tuesday, February 4, 2020

10.00 – 10.30 Registration and coffee

10.30 – 11.15 Jan ROSENKRANZ, Luleå University of Technology
Welcome, Recent Developments in Mineral Processing at LTU
Tommy KARLKVIST, Luleå University of Technology
Education in Mineral Processing at LTU
Ross WAKELIN, SINTEF Narvik A.S.
SEESIMA - Supporting Environmental, Economic and Social Impacts of Mining Activity
Balz KAMBER, Trinity College Dublin
Metal Intelligence - European Industrial Doctorate in Future Efficient Minerals Analysis, Processing and Training

11.15 – 12.15 Keynote: Helmut FLACHBERGER, Montanuniversität Leoben
Dry Beneficiation Processes for Industrial Minerals and Ores

12.15 – 13.15 Lunch at Bistro Norrland

Session 1 - New development projects

Session chair: Mehdi Parian

13.15 – 13.45 Patrick KROLOP, TU Bergakademie Freiberg
Trace Element Composition of Iron Oxides in the Per Geijer Deposits in Kiruna, Northern Sweden

13.45 – 14.15 Martin HJÄRTSTRÖM, Kaunis Iron AB
Re-Commissioning of the Kaunisvaara Concentrator

14.15 – 14.45 Kathryn HADLER, Imperial College London
Mining Oxygen on the Moon: Transforming Dry Mineral Processing for Space and Earth

14.45 – 15.15 Coffee break

Session 2 – Surface chemistry and wet processing

Session chair: Tommy Karlkvist

15.15 – 15.45 António FIÚZA, University of Porto
Amine Solvent Extraction of Alkaline Tungsten Leaching Liquors

15.45 – 16.15 Nils Johan BOLIN, Boliden Mineral AB
Testing Hydrofloat in the Scavenger Flotation at Aitik

16.15 – 16.45 Saija LUUKKANEN, University of Oulu
About Concentrate Quality

19.00 – 24.00 Dinner at Kulturens Hus

Wednesday, February 5, 2020

Session 3 – Metal Intelligence - Future efficient minerals analysis, processing and training

Session chair: Yousef Ghorbani

08.30 – 08.45 Glaciale TIU, Luleå University of Technology
Mineralogical Assessment of the Metamorphosed Lappberget Zn-Pb-Ag-(Cu-Au) Ore Body, Sweden: Implications for Mineral Processing

08.45 – 09.00 Pratama Istiadi GUNTORO, Luleå University of Technology
Ore Texture Analysis : Moving Towards 3D with X-ray Microcomputed Tomography (μ CT)

09.00 – 09.15 Caroline IZART, Outotec (Finland) Oy
HSC Sim Multicomponent Mill Models for Grinding Simulations of Blends

09:15 – 09:30 Marco ACEVEDO, Trinity College Dublin
Novel Ways of Automated Trace Element-Mineral Association Recognition

09.30 – 09:45 Alexandra STAVROPOULOU, Trinity College Dublin
Multi-Technique Sample Feature Analysis

09:45 – 10.15 Coffee break

Session 4 – Physical separation

Session chair: Saeed Chelgani

10.15 – 10.45 Parisa SEMSARI, Luleå University of Technology
Spatial Deformation of Ore Texture by Quantitative Characterization

10.45 – 11.15 Andrew DIXON, FLSmidth (UK) Ltd
FLSmidth's REFLUX® Classifier – Its use in Iron Ore and Mineral Applications

11.15 – 11.45 Magnus EVERTSSON, Chalmers University of Technology
Development and Implementation of Crushing and Screening Models in IES (Integrated Extraction Simulator)

11:45 – 12:15 Panagiota PAPAPOPOULOU, Chalmers University of Technology
Utilization of Environmental Simulations in the Design and Operation of a Coarse Comminution and Classification Circuit

12.15 – 13.15 Lunch at Bistro Norrland

Session 5 – SEESIMA – Results from a KolaArctic Cross Border Collaboration

Session chair: Jan Rosenkranz

13.15 – 13.45 Dmitry MAKAROV, Kola Science Centre of the Russian Academy of Sciences, Apatity
Products from Mine Waste

13.45 – 14.15 Hanna VIRPIRANTA, University of Oulu
Biological Treatment for Sulfate and Metals Containing Mining Wastewaters

14:15 – 14:45 Vitalis CHIPAKWE, Luleå University of Technology
Study on Effects of Additives on Grinding Performance

14.45 – 14.50 Conference closing

15:00 LLT-buss till Luleå Airport (Linje 4)/LLT-bus to Luleå Airport (Nr 4) Avgår var 20:e minut / Departure every 20th minute