



Tuesday, November 5th, 2019, Morning

Time	Keynote Session	
	Vice President for Innovation Janne Laine , Aalto University, Finland Opening Speech	
	N.N. European Commission (tbc) EU Battery Presentation	
	CEO Joni Lukkaroinen , Terrafame Why battery metals, why Finland?	
	Prof. Andy Abbott , University of Leicester Ionometallurgy: Metal processing using ionic liquids	
	LUNCH	



Tuesday, November 5th, 2019, Afternoon

Time	Session 1 Battery Materials	Session 2 Carbon Footprint
	<u>Session Keynote</u> Dr Emma Nehrenheim , Northvolt, Sweden Northvolt story	<u>Session Keynote</u> Jarmo Lilja , SSAB, Finland
	CEO, PhD, Prof. Pertti Lamberg , Keliber, Finland Production of battery grade lithium chemicals from spodumene ore – Case Keliber	Prof. Timo Fabritius , Oulu University, Finland Biomass based reductants in ironmaking and steelmaking
	Prof. Zhihong Liu , Central South University, China Recycling status of spent lithium ion power batteries in China	Prof. Paul Beukes , North West University, South Africa Reduced CO ₂ emissions in Cr-ferroalloy production.
	CEO Joni Hautojärvi , Nornickel Sustainable integrated battery chemicals production from nickel mattes	Dr. Eli Ringdalen , SINTEF Industry Pretreatment of manganese ore as a mean to reduce CO ₂ emissions
	Post Doctoral Researcher Fupeng Liu , Aalto University, Finland Synergistic recycling of spent NiMH and Li-ion batteries based on green chemistry principles	Prof. Merete Tangstad , Norwegian University of Science and Technology, Norway Reduced CO ₂ emissions in Mn-ferroalloy and Si/Fe-production
	Jaakko Savolainen, Fortum, Finland Battery Life Cycle services - How Add value to batteries in all life cycle stages.	Outokumpu tbc
	Dr. Alejandro Datas , Technical University of Madrid, Spain Energy storage in molten silicon: AMADEUS project overal concept and context	N.N. (tbc)
	Prof. Tuomo Sainio , Lappeenranta University of Technology Continuous ion exchange in purification of battery metals – case Co.	Prof. Ari Jokilaakso , Aalto University, Finland Non-fossile recuctants in non-ferrous metals refining
	Prof. Mari Lundström , Aalto University, Finland BATCircle – Recycling and Industrial Integration	Doctoral student Samant Nagraj , KU Leuven, Belgium Plasma-driven metal extraction from industrial process residues.
	Shichao He, Central South University, China Recovery of spent LiCoO ₂ cathod material with the reduction calcination-leach-precipitation process	Prof. Hürman Eriç , University of the Witwatersrand, South Africa Quo Vadis Metal Processing? Carbon Footprint, Sustainability and Circular Economy

Wednesday, November 6th, 2019, Morning

Time	Session 1 Gold/Precious metals	Session 2 Process Simulation
	<u>Session Keynote</u> Petri Latostenmaa , Boliden Harjavalta Precious metals production in Boliden Harjavalta	Session Keynote Dr. Jiliang Xia, Outotec, Finland CFD modeling as a powerful tool in development of Outotec products and processes
	Violeta Barranco, Cenim, Spain Electrochemical recovery of trace Pt from Cu-ER electrolyte – and functional surfaces created.	Doctoral student Alejandro Llamas , Freiberg University, Germany Development of a comprehensive product-centric sustainability indicator framework.
	Doctoral student Stylianos Sphathariotis , University of Leicester, UK Electrowinning of metals in deep-eutectic solvents.	Doctoral student Jani-Petteri Jylhä , Aalto University, Finland Coupled CFD-DEM modelling of flash smelting furnace
	Doctoral student Pelin Altinkaya , Aalto University, Finland Cyanide free leaching of gold.	N.N. (tbc)
	Prof. Herman Potgieter , University of Witwatersrand, South Africa How successful is ionic liquids to extract gold from low grade refractory tailings?	Doctoral student Roberto Macchieraldo , University of Bonn, Germany Study of solvent miscibility by computational methods.
	N.N. (tbc)	Doctoral student Gwydyon Marchelli , University of Bonn, Germany In-silico design of selective metal extractants
	Doctoral student Ivan Korolev , Aalto University, Finland Electrochemical process for selective recovery of gold.	Dr. Sirpa Kallio , VTT CFD modeling of reactive gas-solid flows with examples from combustion processes
	N.N. (tbc)	Post-doc Min-Kyu Paek , Aalto University, Finland Development of Simulation Model for Vacuum Tank Degasser Process
	Doctoral student Joonas Heikkinen , Aalto University, Finland Pyrolysed carbon for platinum recovery by electrodeposition-redox replacement	Prof. Daniel Lindberg , Aalto University, Finland Elemental recovery and valorization of biomass and waste incinerator ashes

Wednesday, November 6th, 2019, Afternoon

Time	Session 1 Valorisation	Session 2 Resource efficiency
	Session Keynote Dr. Leona Wunderlich , Boliden Odda, Norway Research case of Ag-thiosulfate leaching of neutral residue	Session Keynote N.N. (tbc)
	Dr. Mari Lindgren , Outotec Technologies enabling circular economy and opportunities that lie within	Prof. Dimitrios Panias , National Technical University of Athens, Greece Resource Efficiency in Primary Alumina/Aluminum Industry
	Doctoral student Ionna Maria Pateli , University of Leicester, UK Ionometallurgical leaching of industrial process residues using deepeutectic solvents.	Doctoral student Giacomo Damilano , KU Leuven, Belgium Synthesis of extractants and ionic liquids from renewable chemicals
	Doctoral student Thupten Palden , KU Leuven, Belgium Biocompatible solvometallurgical leaching methods for low-grade industrial process residues.	Prof. Zhiyong Liu, Central South University, China Mobility and speciation of arsenic species from the lead-zinc smelter
	Doctoral student Jennifer Astoveza , Imerys Aluminates, France Residual matrix valorisation as supplementary cementitious materials in calcium aluminate blended cements	Prof. Emeritus Pekka Taskinen , Aalto University, Finland tbc
	Doctoral student Christina Siakati , KU Leuven, Belgium Iron-rich inorganic polymers derived from residual matrices.	Dr. Justin Salminen , Boliden Kokkola, Finland By-product metals recovery from complex streams'
	Dr Oluf Bøckman – Glencore Nikkelverk High lights from 11 years R&D and expected benefits for the new Cu-EW demoplant at Glencore Nikkelverk AS	Prof. Tianzu Yang , Central South University, China Oxygen pressure dissolution of antimony trioxide in potassium hydroxide solution
	Prof. Yongxiang Yang , TU Delft, The Netherlands Recycling e-waste and REE	Doctoral student Nikos Nikolopoulos , KU Leuven, Belgium Advanced characterisation of metal-containing low-grade metallurgical residues.
	Prof. Bart Blanpain , KU Leuven Zero waste processing of metallurgical slags: dream or reality	Prof. Longgong Xia , Central South University, China The Strengthening of Copper Recovery from the Smelting Slag