

Lithium Mining and Extraction: European Sourcing and Skills

AGENDA

APRIL 27, 2022
10.00 – 12.00 CEST



WELCOME BY THE MODERATOR



10:00

PRESENTATION OF ALBATTs



10:05

EXPERTS PRESENTATIONS



10:10

Dr. Laurence Lamm, Senior Advisor – Mineral and Metallurgical Processes, EIT Raw Materials GmbH

Mr. Kari Valkama, Project Manager, Merinova Technology Centre

Lithium resources in Europe	EU perspective on self-sufficiency and current forecast on Gigafactories' implementation	Dr. Gerardo Herrera , Policy Officer – Raw Materials, DG GROW, European Commission
	European deposits, active mines and exploration projects	Dr. Patrice Christmann , Consultant, Krysmine
Lithium mining and extraction	Conventional mining	Mr. Asko Saastamoinen , Chief Human Resources Officer, Keliber Oy
	Geothermal extraction	Dr. Blandine Gourcerol , Economic Geologist, BRGM
Lithium processing	Processing from primary sources	Dr. Carlos Nogueira , Head of the Materials for Energy R&D Unit, LNEG
	Processing from secondary sources: recycling	Dr. Nathalia Vieceli, Ms. Lea Rouquette Phd Student , Chemistry and Chemical Engineering, Industrial Materials Recycling, Chalmers University

ROUNDTABLE DISCUSSION



11:25

The skills and job roles in lithium mining and extraction

CLOSING REMARKS



11:55

Dr. Laurence Lamm, Senior Advisor – Mineral and Metallurgical Processes, EIT Raw Materials GmbH



Laurence Lamm is the Senior Advisor for Processing at EIT RawMaterials (European Institute of Innovation and Technology). She is responsible of the coordination of the Processing and Recycling activities and participates in several Advisory Boards.

She is also part of several Erasmus+ projects on Blueprint for sectorial skills projects.

She holds a PhD in Material Science and an Engineer Degree in Metallurgy and has 30 years of experience in the Steel and Automotive Industry.

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Kari Valkama is a project manager at Technology Centre Merinova in Vaasa, Finland. Merinova is the leader of the EnergyVaasa Cluster that possesses the Gold Label of Cluster Management Excellence. Its cutting-edge expertise is in energy technology and business development. Merinova is involved in various projects, programs and services regionally, nationally and globally. Kari holds a degree in Business Administration. He has years of experience in working with business and general development related tasks in SME companies in metal and cleantech industries.



Gerardo Herrera is working as a Policy Officer in the Energy Intensive Industries and Raw materials unit at the Directorate General Internal market, Industry, Entrepreneurship and SMEs in the European Commission. In DG GROW he is acting as a Seconded National Expert from Spain, where he is research professor at the Geological Survey of Spain. In DG GROW he is part of the raw materials team working on data analytics, earth observation and international partnerships with Latin America.



Patrice Christmann, PhD, MBA, is a self-employed researcher and consultant, specialised in minerals and metals and related issues (sustainability, policies, governance, economics, research, technologies ...). He retired from BRGM, the French Geological Survey, in 2016, after a 40 years long career. He also was a member of the UN International Resource Panel (2011-2020, resourcepanel.org). He currently teaches on minerals, metals; the energy Transition and Sustainable Development at EPF, a French Engineering School.

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Blandine Gourcerol currently works at the French Geological Survey (BRGM) as a researcher on ore deposit geology. Her research aims to characterize a variety of magmatic and hydrothermal ore systems using both traditional and novel approaches. Her work incorporates field studies supported by a large range of petrologic and mineral-fluid chemical studies (e.g., lithogeochemistry, fluid inclusions) using analytical facilities at the BRGM and collaborating institutions



Asko Saastamoinen works for Keliber Oy as the Chief Human Resources Officer. He is a M.Sc. in Civil Engineering, having years of experience in different fields of HR and Safety in chemical and process industries as well as mining. His work is both on strategic level on planning and leading people activities as well as on practical level in recruiting, managing and developing employees for Keliber, aiming to be the first company in Europe producing Lithium from own ore resources.



Carlos Nogueira is a researcher at LNEG and Head of the Materials for Energy R&D Unit. His main expertise is in extractive metallurgy and recycling of end-of-life products, namely in the development and optimization of extractive processes by hydrometallurgy. He also has a scientific interest in the field of energy storage. He has been participating in national and international research projects and has many publications in scientific journals. Lithium has been one of the core topics of its activities in recent years.

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Nathália Cristine Vieceli works at the Chalmers University department of Chemistry and Chemical Engineering, Industrial Materials Recycling Unit. Nathália researches lithium recovery from spent Li-ion batteries by hydrometallurgical processes. Her interests in recycling include optimization of processes to recover critical raw materials from secondary resources. Nathália also has experience on lithium recovery from natural resources (ores).



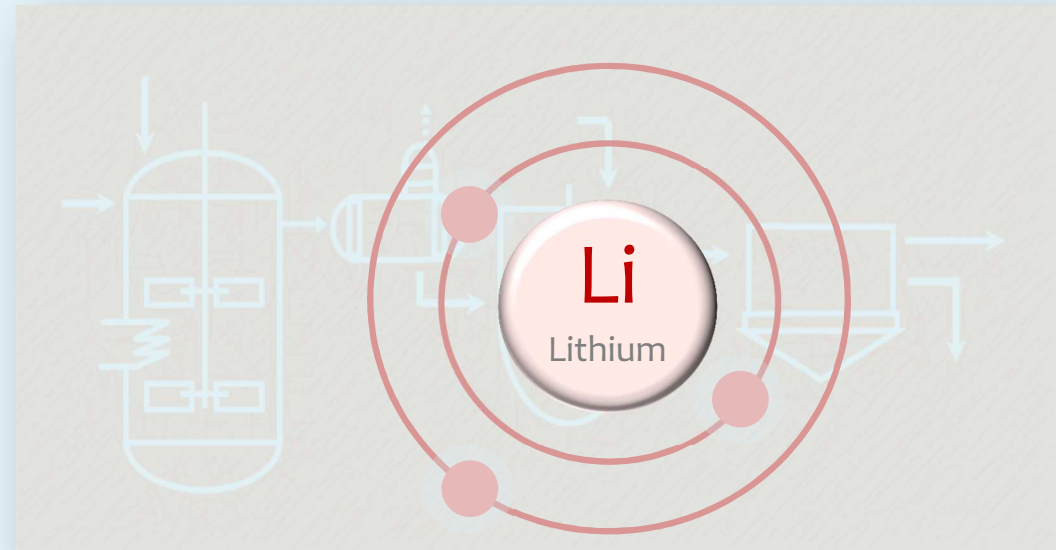
Léa Rouquette also works at the Chalmers University department of Chemistry and Chemical Engineering, Industrial Materials Recycling Unit. Léa's PhD project is focused on lithium-ion batteries recycling. The goal is to recover valuable metals from the spent batteries.

Lithium metallurgical processing from primary resources

*from Li mineral concentrates
to Li commodities*

Carlos Nogueira

April 27, 2022



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Session: EXPERTS PRESENTATIONS:
LITHIUM PROCESSING

Outline

1. Introduction – Li applications and value chain
2. Li primary resources
3. Metallurgical treatment
4. Detailed description of process
5. Needs and Solutions
6. Skills and Training in Metallurgical Processing