

Raw Materials Week

18-22 November 2019



3rd EU Critical Raw Materials Event

18 November 2019

Le Plaza Hotel (Boulevard Adolphe Max 118-126, 1000 Bruxelles)

The Critical Raw Materials (CRM) event offers an opportunity to a variety of stakeholders to get a fresh update about the latest EU activities in the field of Critical Raw Materials. The event is co-organised by the European Commission, the Horizon 2020 project SCRREEN – expert network on CRMs - and the EIT RawMaterials project IRTC - International Round Table on Materials Criticality.

08.00-10.00 **Registration and welcome coffee**

10.00-10.45 **Welcome and Opening Remarks** – Mr **Gwenole Cozigou**, Director, Industrial Transformation and Advanced Value Chains, DG GROW, EC
Keynote – Mr **Nedal T. Nassar**, Chief, Materials Flow Analysis Section, National Minerals Information Center, U.S. Geological Survey

10.45-11.15 **Networking coffee break**

11.15-12.15 **Session I: Criticality and market perspectives** – Chaired by Mr **Peter Handley**, Head of Unit, Resource Efficiency and Raw Materials, DG GROW, EC

Session I introduces concepts of criticality determination and industry approaches towards reducing market and other supply risks. There are plenty of methodologies to assess criticality available, but the individual characteristics of industries' raw material dependencies shape their specific vulnerabilities and might determine different suitable mitigation measures. The session will discuss the needs of companies to be informed about their individual risks and ways towards addressing these.

Mr **Luis Tercero**, Fraunhofer, Head of Business Unit Systemic Risks, Fraunhofer Institute for Systems and Innovation Research ISI - How to determine material criticality

Mr **Henrik Ørskov Pedersen**, Director, Head of Core Technology, Grundfos Holding A/S - Materials criticality assessment from an industrial perspective

Ms **Alessandra Hool**, CEO ESM Foundation - Developing guidance for industry

Ms **Sophie Damm**, Senior Geologist – German Mineral Resources Agency - DERA criticality assessment 2019

12.15-13.15 **Session II: Panel discussion: How can we reduce criticality?** – Chaired by Dr. **Patrice Christmann**, Researcher and consultant

The panel discussion follows up on the topics of session I and will present approaches on criticality from a variety of perspectives. Methodologies and their goals and scopes will be discussed, with an emphasis on mitigation options: what are the paths towards reducing criticality for different countries and stakeholders?

Panellists:

Mr **Kotaro Shimizu**, Chief Analyst, Manager of Resource and Energy division, UFJ Research Institute

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Ms **Irina Oswald**, Environmental Program Manager, Apple

Prof. **Roderick Eggert**, Professor, Colorado School of Mines, and Deputy Director, Critical Materials Institute

Mr **Roland Gauss**, Senior Advisor, EIT RawMaterials

13.00-14.40 Buffet networking lunch

14.40-16.00 Session III: Technology opportunities for CRM mining, recycling, substitution - Chaired by Dr. **Stéphane Bourg**, SCRREEN Coordinator

This session presents the most promising research fields to improve the supply of CRM in Europe. The two main options are (1) to improve the production by a diversification of the resources and (ii) a reduction of the dependence to a resource through substitution.

Mr **Simon Michaux**, Senior Scientist in Geological Survey of Finland (GTK) - Main innovation pathways for primary CRM production in Europe

Mr **Peter Clark**, Knowledge Transfer Manager - Raw Materials - Main innovation pathways for CRM substitution in Europe

Prof. **Maria Taxiarchou**, Assist. Professor in National Technical University of Athens - Main innovation pathways for secondary CRM production in Europe

Prof. **Gavin Mudd**, Associate Professor – Environmental Engineering, RMIT University, Melbourne, Australia - Ore grades in global metallic Mining

16.00-16.30 Networking coffee break

16.30-17:30 Session IV: Steps towards a circular economy – Chaired by Ms **Alessandra Hool**, IRTC Coordinator

In this session, we discuss the potential of secondary sourcing and increased circularity of critical raw materials. CRMs are often disregarded in circularity approaches that focus on mass balance and current economic value of raw materials. Thus, characterizing the urban mining potential and improving standards and regulations is of importance. The session ends with an outlook towards global governance that supports the transition towards a circular economy, which includes CRMs.

Mr **Otmar Deubzer**, Scientific Advisor, United Nations University SCYCLE - Upgrading regulations and standards to enable recycling of CRM from WEEE

Dr. **Min-Ha Lee**, Principal researcher of the Korea Institute of Industrial Technology (KITECH); Professor of University of Science and Technology (UST) Korea - Steps towards a circular economy and standardization in Korea

Ms **Laura Platchkov**, Senior policy advisor, Swiss Federal Office for the Environment (FOEN) - Towards a global resource governance / Mr **Pascal Peduzzi**, Director of GRID-Geneva, United Nations Environment Programme (UN Environment) - Briefing on sand

17:30-18:00 Closing discussion – moderated by Ms **Alessandra Hool** and Mr **Stéphane Bourg**

18:00 Networking Cocktail