



EUROPEAN UNION
FOR A SUSTAINABLE FUTURE

Open to the World

The European Union's Horizon program for research and innovation

Exploration and mining technology workshop

**Tuesday March 3, 2020
2:00 pm to 6:00 pm**

North Building, Room 206B
Metro Toronto Convention Centre



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Open to the World - The European Union's Horizon program for research and innovation

INTRODUCTION 2:00 pm

Welcome and opening remarks - Arnoldas Milukas, Head of Unit Horizon 2020 Environment and Resources, EASME - European Commission

Raw materials for the climate-neutral economy - Peter Handley, Acting Director, Directorate Sustainable Industry and Mobility, European Commission

Societal challenges: innovation, evidence-based decision making and public trust - Dr. Eibhlín Doyle, Chief Geologist – Head of Exploration and Mining Technical Division, Department of Communications, Climate Action and Environment, Government of Ireland

Introduction to EIT Raw Materials - Andreas Klossek, interim Chief Executive Officer, Chief Operating Officer and Managing Director of EIT RawMaterials

MINERAL EXPLORATION AND INTELLIGENCE 2:40 pm

Moderated by Prof. R. Anthony Hodge, Senior Scholar and Adjunct Professor at the Robert M. Buchan Department of Mining Engineering Queen's University in Kingston, Canada; Visiting Professorial Fellow and Adjunct Professor at the Sustainable Minerals Institute, University of Queensland, Brisbane Australia

Passive seismics to reduce environmental impact and costs of mineral exploration - PACIFIC - Nicholas Arndt, Sisprobe

Upscaling mineral exploration through field augmented reality - FARMIN - Fabian Stamm, RWTH Aachen University

Deep mineral deposit targeting through new geophysical technologies - Smart Exploration - Alireza Malehmir, Professor at Department of Earth Sciences, Geophysics, Uppsala University

PANEL DISCUSSION - What can technology projects do to engage civil society in the application of new technologies?

Nicholas Arndt, Sisprobe; **Alireza Malehmir**, Professor at Department of Earth Sciences, Geophysics, Uppsala University; **Fabian Stamm**, RWTH Aachen University; **Frances Wall**, Professor of Applied Mineralogy, Camborne School of Mines, University of Exeter

The European Commission's Raw Material Information System (RMIS) – a knowledge management and monitoring tool - Constantin Ciupagea, Head of Unit Land Resources, the Joint Research Centre, European Commission

COFFEE BREAK

MINING AND MINERAL PROCESSING 4:20 pm

Moderated by Andreas Klossek, interim Chief Executive Officer, Chief Operating Officer and Managing Director of EIT RawMaterials

Innovation and public engagement in the mining industry: setting honest boundaries - Prof. R. Anthony Hodge, Senior Scholar and Adjunct Professor at the Robert M. Buchan Department of Mining Engineering Queen's University in Kingston, Canada; Visiting Professorial Fellow and Adjunct Professor at the Sustainable Minerals Institute, University of Queensland, Brisbane Australia

Sustainable intelligent systems for a global mining industry - SIMS - Jan Gustafsson, Project Manager, EPIROC

Zero waste concept for underground mining and processing - MineTALC - Prof. Juraj Janočko, Technical University of Košice

Making a business case of water and safe tailings - ITERAMS - Päivi Kinnunen, Research Team Leader, Principal Scientist, VTT

PANEL DISCUSSION - How can research and innovation contribute in building trust in the extractive industry?

Jan Gustafsson, Project Manager, EPIROC; **Prof. R. Anthony Hodge**, Senior Scholar and Adjunct Professor at the Robert M. Buchan Department of Mining Engineering Queen's University in Kingston, Canada; Visiting Professorial Fellow and Adjunct Professor at the Sustainable Minerals Institute, University of Queensland, Brisbane Australia; **Prof. Juraj Janočko**, Technical University of Košice; **Päivi Kinnunen**, Research Team Leader, Principal Scientist, VTT

ERA-MIN - Public-public partnership coordinating research and innovation programmes on raw materials - Ana Luisa Lavado, Science Officer, Foundation for Science and Technology

Participating in the Horizon programme and where to find out more - Jonas Hedberg, Horizon 2020 Environment and Resources, EASME - European Commission

CLOSING 5:50 pm

Closing remarks - Arnoldas Milukas, Head of Unit Horizon 2020 Environment and Resources, EASME - European Commission