

SUSTAINABLE USE OF NATURAL RESOURCES

DIALOGUE AND CONFERENCE



WE NEED TO COLLECT KNOWLEDGE, COMPETENCES AND PARTNERSHIPS TO SOLVE THE CRITICAL PROBLEMS HINDERING THE SUSTAINABLE USE OF NATURAL RESOURCES. ACADEMICS TOOK THE LEAD TO INITIATE A DIALOGUE AMONG THE STAKEHOLDERS OF THE NATURAL RESOURCES VALUE CHAIN TO DISCUSS THE POTENTIAL OF JOINT EFFORTS IN THIS FIELD AND TO SUM UP YEARLY THE PROGRESS OF ACTIVITIES AND GATHER PROFESSIONALS TO SHARE KNOWLEDGE.

THE FIRST EVENT OF THE CONFERENCE SERIES WILL BE DEDICATED TO THE

SUSTAINABLE RAW MATERIALS SUPPLY

27-28 NOVEMBER 2024
UNIVERSITY OF MISKOLC, HUNGARY

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FACULTY OF
EARTH AND ENVIRONMENTAL
SCIENCES AND ENGINEERING



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The University of Miskolc will organise this first event, next occasions to be held in alternative locations in the Central European and Balkan countries, inviting scientists and experts from various countries to take part in this international forum. The aim of the yearly events will be to enhance discussion between participants from academia, industry and governance to foster innovation and development in the field of natural resources. As a preliminary event, **Miskolc Campus Forum Green and Smart** was organised on 9th May, 2024 with representatives from market leading institutions and ministries - CATL, EIT RM and other interesting players: <https://www.uni-miskolc.hu/esemenynaptar/green-and-smart-greenovation/>

The supply of raw materials, especially **critical raw materials (CRM)** is one of the most critical topics of Europe and its member states currently. The **Critical Raw Materials Act (CRMA)** is out providing a good momentum to explore the challenges of sustainable utilization of CRM, but also various natural resources. The **first SUN conference** will be organised with the objective of bringing together stakeholders to discuss the imperatives and challenges of the CRMA, specially focusing on hot topics of CRM, as well as Renewable Energy Sources and Water Resources, current European, national policies governing the extractive industry and sustainable supply of raw materials.

CRMA TARGETS

CRMA benchmarks for the EU's annual consumption of raw materials:

- 10% from local extraction
- 40% to be processed in the EU
- 25% to come from recycled materials
- Member states to develop strategic projects and create single points of contacts at the relevant administrative level and at the relevant stage in the critical raw materials value chain.

TODAY'S OF MEMBER STATES

- Streamline permit procedures for EU extracting projects
- Definition of strategic CRM projects
- Supply-chain risk assessment framework set-up
- Definition of national exploration plans
- Ensuring EU-wide access to 34 critical and 17 strategic raw materials
- Establishing ambitious benchmarks on extraction, processing, recycling
- Diversification of import sources

COOPERATION • SYNERGIES & COMPLEMENTARITIES •
SHARED KNOWLEDGE & COMPETENCES • JOINT EFFORTS



PROGRAMME

27 NOVEMBER INTRODUCTORY DAY

- 16:00 – 18:00 Board meeting (representatives of the main organizer institutions)
18:00 – 20:00 Icebreaking event and dinner (invitation only)

28 NOVEMBER CONFERENCE DAY

- 8:00 – 9:00 Registration
9:00 – 9:10 **Prof. Zita Horváth**, Rector, University of Miskolc – Rector's welcome
Gábor Zelei, Secretary General, Hungarian Mining Association – Welcoming words

SESSION I. Regulatory environment and policy solutions for the implementation of CRMA

- 9:10 – 10:30 Panel discussion on CRM policies and actions
Moderator: **Dr. Tamás Madarász** - Head of institute, University of Miskolc

Vitor Correia – Secretary General, International Raw Materials Observatory INTRAW Keynote
Dr. Ádám Nagy, Deputy State Secretary, Ministry of National Economy
Viktor Horváth, Deputy State Secretary, Ministry of Energy
Dr. Zoltán Káldi, Chief of National Mines, Supervisory Authority for Regulatory Affairs, National Mines Inspectorate
Ivonne Arenz, German Aggregates Federation (MIRO), on behalf of UEPG
Fernando Sanchez, Environment, Health & Safety Officer, EUROMINES

- 10:30 – 10:40 Q&A
10:40 – 11:00 Coffee break

SESSION II. CRM challenges in the industry – Introduction of international stakeholders

- 11:00 – 12:45 Chairman: **Prof. Dr. Gábor Mucsi** - Dean, Faculty of Earth and Environmental Sciences and Engineering, University of Miskolc

Iakovos V. Yakoumis, Founder and CEO Monolythos Catalysts and Recycling Ltd. Keynote speaker – *Recovering Critical Raw Materials Coming from End-of-Life Batteries, Electric Motors, Hydrogen Devices and Catalysts. MONOLITHOS' successful circular economy model*
Dr. Ladislav Pasek, Deputy Director for Raw Materials and Development, DIAMO state enterprise, Czech Republic – *National Raw materials exploration programme in the Czech Republic*
Bence Gonda, Vice President for Strategic Affairs – **Dr. Tamás Fancsik**, Director of Geological Survey, Supervisory Authority for Regulatory Affairs, National Mines Inspectorate – *The cooperation agreement of the geological services of the V4 countries and the domestic aspect of the EU's critical mineral raw material exploration program*
Csaba Tóth, CEO - Nitrokémia PLC (Hungary) – *The unfinished story of Recsk, Hungary*
Attila Király, E&P Lithium Program Manager, MOL Group – *Lithium extraction from brine in Hungary*
István Illés, Head of R&D, Metal Shredder MSH – *Recovery of CRMs from electronic waste using innovative hydrometallurgical methods*
Aleks Salo, Account Manager, Geological Survey of Finland (GTK) – *Attracting investments and growth for mineral sector - Finnish mineral strategy*

- 12:45 – 13:00 Q&A
13:00 – 14:15 Lunch

SESSION III. How Academia can contribute to development and completing CRMA targets – Presentation of academic strategies

14:15 – 15:30

Chairman: **Dr. Ferenc Mádai** - Head of Institute, University of Miskolc

Prof. Martin Sisol, Deputy Dean, Faculty of Mining, Ecology, Process Control and Geotechnologies, Technical University of Kosice, Slovakia
Prof. Radosław Zimroz, Dean, Faculty of Geoengineering, Mining and Geology, Wrocław University of Science and Technology
Prof. Hana Staňková, Dean, Faculty of Mining and Geology, VSB Technical University of Ostrava, Czech Republic
Prof. Piotr Małkowski, Deputy Dean, Faculty of Civil Engineering and Resource Management AGH University of Science & Technology, Krakow, Poland
Prof. Haldun Kurama, Dean, Eskişehir Osmangazi University, Faculty of Engineering and Architecture, Turkey
Prof. Branko Gluscevic, Deputy Dean, Faculty of Mining and Geology, University of Belgrade
Prof. Gábor Mucsi, Dean, Faculty of Earth and Environmental Sciences and Engineering, University of Miskolc, Hungary

- 15.30 – 16.00 Wrap up – Q&A
16:00 – 18:00 Snack and networking

REGISTRATION TO THE EVENT:

<https://forms.gle/L3TVQIFr8McAecRPA>



ORGANIZERS

NATIONAL

University of Miskolc

Hungarian Mining Association

Hungarian Academy of Sciences, Scientific Committee on Mining

Ministry of Energy

Ministry of National Economy

Supervisory Authority for Regulatory Affairs

Hungarian Scientific Society of Energy Economics

INTERNATIONAL

Technical University of Kosice

Wroclaw University of Science and Technology

VSB Technical University of Ostrava

UEPG Aggregates Europe

EUROMINES Raw Materials Mining in Europe



FOR MORE INFORMATION PLEASE CONTACT:

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