

# **International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle (URAM-2023)**

**Monday, 8 May 2023 - Friday, 12 May 2023**

## **Scientific Programme**

The presentations and discussions at URAM-2023 will:

- Lead to a better understanding of the adequacy of uranium supply to meet future demand
- Provide information on geological models, new exploration concepts, knowledge and technologies that may potentially result in the discovery and development of new uranium resources
- Describe new mining and processing technologies that have the potential to support a more efficient and sustainable development of uranium and related resources; and Consider the environmental compatibility of uranium production and the overall effectiveness of progressive waste management, decommissioning and remediation of production facilities

Contributed papers will be accepted on the following topics:

## **Track 1 - Nuclear power and energy markets**

- Energy policies and trends
- Future energy markets, considering climate change (COP-27) and UN sustainable development goals
- Uranium Supply and Demand
- Secondary uranium supplies and inventories
- Nuclear Market trends
- Uranium production economics

## **Track 2 - Geology and metallogeny of uranium deposits**

- Uranium deposit types and recognition criteria
- Geochemistry and mineralogy of deposits and tailings
- Uranium provinces
- Genetic models

## **Track 3 - Advances in uranium and thorium exploration**

- Geological, geophysical, geochemical methods
- Case studies for uranium exploration stories including lessons learned
- Resource estimation techniques
- Regional spatial and quantitative uranium modelling

## **Track 4 - Project management and evaluations of uranium and thorium projects**

- Conceptual, scoping, pre-feasibility and feasibility studies
- Project priority, maturity ranking and timelines
- Case studies of projects
- Socio-economics
- Financing of uranium projects
- National projects

## **Track 5 - Underground and open pit uranium mining and processing**

- Advances in uranium mining technologies and applications
- Techniques for mining and processing low grade uranium ores including ore beneficiation and processing
- New and emerging innovations and technologies in uranium mining and milling
- Advances in heap leaching

## **Track 6 - Uranium production by the in situ recovery (ISR) process**

- ISL exploration and resource estimation
- ISL mining and processing – current practices and innovations for the future
- ISL closure and remediation
- ISL case studies

## **Track 7 - Thorium and associated resources**

- Thorium resources
- Thorium utilization scenarios and policies
- By-product thorium and associated metals

## **Track 8 - Health, safety, environment and social responsibility**

- Advances in radon management and radiation exposure reduction
- Risk-based assessments
- Regulatory issues
- Managing legacy issues
- Stakeholder communications, engagement and public hearings
- Indigenous aspects
- Social and community return
- Environmental assessment and management

## **Track 9 - Education and training in the uranium production cycle**

- National and regional training programmes
- E-learning opportunities
- Professional registration

## **Track 10 - Uranium from unconventional resources**

- Unconventional uranium resources (e.g. extraction of uranium from phosphates)
- Production of uranium as a by- and co-product
- Uranium from salt water

## **Track 11 - Tailings and waste management**

- Progressive end-of-life remediation
- Evaluation of tailings
- Mine site regeneration

## **Track 12 - Uranium newcomers**

- Update of uranium exploration and mining activities, newcomers
- Opportunities and challenges