International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues (URAM-2018)

Monday, June 25, 2018 - Friday, June 29, 2018

Vienna

Thematic Tracks

The purpose of the symposium is to analyse uranium supply and demand scenarios and to present and discuss new developments in uranium geology, exploration, mining, milling and processing, as well as the environmental requirements for uranium operations and site decommissioning. The IAEA welcomes high quality contributions, both academic and applied, that fall under the umbrella of the following subjects, grouped within thematic areas that should be specified when submitting abstracts:

Track 1. Nuclear power and associated modern energy markets

Policies, carbon goals and climate change (with reference to COP-21); Nuclear and renewables as a future energy mix; Energy trends

Track 2. Uranium markets

Supply and demand; Market trends; Secondary supplies and inventories; Economics of production: constraints and improvements

Track 3. Applied geology and geometallurgy of uranium and associated metals

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

Track 4. Advances in exploration

Geological, geophysical, geochemical methods; Exploration stories: lessons from success or failure; Resource estimation; Regional spatial and quantitative uranium modelling

Track 5. Economic evaluations of uranium projects

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

Track 6. Underground and open pit uranium mining and milling

Advances in mining technologies and applications; Ore beneficiation and processing; New and emerging technologies in uranium milling; Advances in heap leaching

Track 7. Uranium production by the in situ leaching (ISL) process

ISL exploration and resource estimation; ISL mining and processing; ISL closure and remediation; ISL case studies

Track 8. 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 9. Thorium and associated resources — international and national initiatives

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

Track 10. 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 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