

International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle: Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues - IAEA CN-216

Monday, June 23, 2014 - Friday, June 27, 2014

Vienna

Scientific Program

The symposium will be organized in several sessions. The presentations and discussions at URAM-2014 will:

Lead to a better understanding of the adequacy of uranium sources (both primary and secondary) to meet future demand;

Provide information on geological models, new exploration concepts, knowledge and technologies that will potentially lead to the discovery and development of new uranium resources;

Describe new production technologies that have the potential to more efficiently and sustainably develop new uranium resources; and

Document the environmental compatibility of uranium production and the overall effectiveness of progressive final decommissioning and, where required, remediation of production facilities.

Uranium markets and industry

Policies;
Supply and demand;
Economics of production;
Financing of uranium projects;
Secondary supplies.

Uranium geology

Petro-mineralogical studies; Geochemical research; Genetic models and Uranium provinces

Advances in exploration and uranium mineral potential modelling

Geophysical exploration; Geochemical exploration; Exploration success stories and Mineral potential modelling

Evaluation of uranium resources

Estimation of resources; International reporting standards; and Conceptual, pre-feasibility and feasibility studies.

Uranium mining and processing

Conventional mining developments and Ore processing developments, including heap leaching.

Uranium production based on in situ leaching (ISL)

ISL techniques and ISL case studies.

Thorium and rare-earth element (REE)-associated resources

International and national initiatives; Thorium resources; Thorium utilization scenarios and policies; By-products of thorium extraction (uranium, REEs, etc.) and Thorium long term storage programmes

Health, safety and environment

Radon and mine ventilation; Tailings and waste management; Risk-based assessments; Regulatory issues and Managing legacy issues.

Social licensing in uranium production

Stakeholder communications; Social return and Case studies.

Education and training in the uranium production cycle

National and International activities.

Uranium from unconventional resources

Recover of uranium as a by-product;
Uranium extraction from phosphoric acid;
Uranium from seawater.

The Future of uranium — Focus on development of greenfield sites

Present status of development of greenfield sites and Opportunities and challenges.