

LANGUAGE

The conference will be held in English.

EXHIBITION

A limited amount of space will be available for commercial vendors' displays/exhibits during the conference. Interested parties should contact the Scientific Secretariat by email (HRconference2014@iaea.org) **before 31 October 2013**.

CONFERENCE WEB PAGE

<http://www-pub.iaea.org/iaeametings/46085/URAM-2014>

Please include reference number IAEA-CN-216 in all communications.

CONFERENCE SECRETARIAT

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Organized by the



IAEA
International Atomic Energy Agency

In cooperation with the



OECD Nuclear Energy Agency (NEA)



World Nuclear Association (WNA)



United Nations Economic Commission for Europe (UNECE)



International Symposium on Uranium Raw Material for the Nuclear Fuel Cycle:

Exploration, Mining, Production, Supply and Demand, Economics and Environmental Issues

**23–27 June 2014
Vienna, Austria**

URAM 2014

Organized by the



IAEA
International Atomic Energy Agency

CN-216

BACKGROUND

Since 1990, the gap between uranium demand and fresh supply from existing mines has been filled by secondary supply. However, with the decreasing availability of secondary supply, the primary uranium resource base and production have to be further expanded. In the late 2000s there was a dramatic spurt in uranium exploration and mining activities in several countries, reflected in increased production, which for a while effectively closed the production–consumption gap. However, demand will significantly exceed supply again soon.

Adequate services, expertise and modern technologies are needed to ensure a sustainable supply of uranium to fuel both operating and future nuclear power reactors. Further, good regulation, sound environmental management, education and training are required to minimize the environmental and social impacts of uranium production and to contribute to public acceptance of nuclear energy.

OBJECTIVES AND EXPECTED OUTCOME

The long term sustainability of nuclear power will depend on, among several factors, an adequate supply of uranium that can be delivered to the marketplace at competitive prices. New exploration technologies and a better understanding of the genesis of uranium ores will be required to discover often deep and increasingly hard to find deposits. Exploration, mining and milling technologies should be environmentally benign, and site decommissioning plans should meet the requirements of increasingly stringent environmental regulations and societal expectations.

The purpose of this symposium is to analyse uranium supply–demand scenarios and to present and discuss new developments in uranium geology, exploration, mining and processing, as well as in environmental requirements for uranium operations and site decommissioning. 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.

TOPICS

- Uranium markets and industry
- Uranium geology
- Advances in exploration and uranium mineral potential modelling
- Evaluation of uranium resources
- Uranium mining and processing
- Uranium production based on in situ leaching
- Thorium and rare-earth element-associated resources – international and national initiatives
- Health, safety and environment
- Social licensing in uranium production
- Education and training in the uranium production cycle
- Uranium from unconventional resources
- The future of uranium – focus on development of greenfield sites.

TARGET AUDIENCE

URAM-2014 is intended to bring together scientists, exploration and mining geologists, engineers, operators, regulators and fuel cycle specialists to exchange information and discuss updated research and current issues in uranium geology and deposits, exploration, mining and processing, production economics and environmental and legal social issues.

KEY DEADLINES

- 3 February 2014** Submission of abstract (including *Form B*)
- 3 February 2014** Submission of Grant Application Form (*Form C*)
- 31 March 2014** Notification of acceptance of abstracts
- 31 July 2014** Submission of full paper (*only upon request by the IAEA*)

Any prospective participant not intending to present a paper should submit the Participation Form (Form A) through the appropriate authority as soon as possible.

SUBMISSION OF PAPER

Extended synopses and full papers must be submitted through the IAEA-INDICO web browser-based file submission system. Instructions will be available on the symposium webpage as of December 2013.

REGISTRATION

No registration fee is charged.