

**URAM-2009**

**The IAEA Support to Training & Education  
in the Uranium Production Cycle  
A New Task**

25 June 2009



**IAEA**  
International Atomic Energy Agency

# IAEA Subprogramme on Uranium

- IAEA Programme 1.2: Nuclear Fuel Cycle and Materials Technologies
  - Subprogramme 1.2.1: **Uranium Resources and Production, Databases for the Nuclear Fuel Cycle**
    - Project 1.2.1.1: **Updating Uranium Resources, Supply & Demand and Nuclear Fuel Cycle Databases**
    - Project 1.2.1.2: **Supporting Good Practices in Uranium Production**

# *Outlook into 2010-11:*

- Ongoing activities:
  - Red Books 2009, 2011
  - Red Book Retrospective – Country Reports
  - Analysis of U supply to 2060
  - UDEPO
  - UPC economics
  - Best practice in UPC
  - TC support (17 TCPs)

# *Outlook into 2010-11:*

- Five completely new tasks added:
  - Database on Th deposits (ThDEPO)
  - Processing and purification of U and Th from conventional and unconventional resources
  - **Optimization of ISL technology**
  - Organize training programme on uranium production cycle
  - **A network on UPC training and education**

# A network on UPC training and education

- **Background**

- Increasing uranium production after a long term depression raises needs in new generation of uranium industry workers development. The old experience should be collected, review and updated. Creation of an international training and education network would be one step forward in resolving it.

- **Proposed title**

- International Network on UPC training and education (INUPTE)

# A network on UPC training and education

**Objectives:** The network is established to increase efficiency in sharing international experience in good practices in uranium production cycle (UPC):

- **coordinate support** to organizations or Member States with less advanced programmes on uranium production cycle, by transferring relevant skills, knowledge, managerial approaches and expertise from Member States;
- **facilitate sharing of knowledge** by exchange of experience amongst participating organizations;
- **provide a forum** in which specialist advice and technical guidance may be provided on the Agency's programme in the area of UPC;
- **establish a mechanism to exchange information**, under the aegis of the Agency, in pursuit of good practices, the correction of improper past practices and the longer term retention of knowledge in support of long-term good practice application in UPC; and
- **organize an expanded range of training and demonstration activities**, especially demonstration projects with a regional or thematic focus providing hands-on, user-oriented experience.

# A network on UPC training and education

## Participation

- Members (Facilitators/donors): Organizations that have demonstrated a breadth of experience in UPC, a record of excellence in a wide range of areas, facilities suitable for demonstration and/or training and a willingness to share their experience through the network, will be identified as “Network Members” and recognized by the Agency as “Centres of Excellence” in UPC.
- Participants: Organizations that have responsibility for activities in UPC, are actively engaged in planning or implementation of UPC activities, and who wish to participate in the activities of the network.

# A network on UPC training and education

## Activities

- **Hosting** of training courses, fellowships or scientific visits by Members.
- **Provision of suitably qualified and experienced individuals** to support Participants by means of on-site education and training, workshops, peer reviews or other expert missions.
- **Providing qualified peers** amongst the Participants of the network to support the Agency's efforts on peer reviews and technical support.
- **Provision of expertise** to allow the Agency to progress its work programme in areas such as consultancy meetings, document production or Coordinated Research Projects (CRPs).
- **Use of fellowships, exchanges, coaching and mentoring**, both on an individual and potentially on an organizational level. This relationship may have similarities to the twinning or similar arrangements made elsewhere.



# A network on UPC training and education

## Methods of Working (1)

- The establishment of a website to provide continuity between meetings and facilitate training or exchange of good practices. As well, a number of other practical objectives may be served by the website, such as to highlight upcoming events, facilitate on-line publication of visual information, and promote individual contacts and their interests.
- Where an organization has a demonstrated excellence in a particular topic it may be nominated to lead for the network on work in that topical area.
- Specialist groups may be formed under the aegis of the network. These may cover topics or facility types of common interest. Where appropriate, CRPs may be formed to pursue these topics.

# A network on UPC training and education

## Methods of Working (2)

- A steering committee, representative of the network, shall be formed by the IAEA.
- Annual review meetings shall take place. Plenary meetings or sessions may be organized for all Members and Participants as a further means of delivering the network goals.
- The IAEA will provide the administrative and secretariat services required by the network, including meeting facilities in Vienna, maintenance of records and distribution of documents.
- The IAEA Secretariat will provide a system for the recording of meetings and other network interactions.

# A network on UPC training and education

## Potential Members

- Colorado School of Mines, Golden, CO, USA
- University of Leoben, Austria
- Bergakademie Freiberg, Germany
- VSB-Technical University Ostrava, Czech Republic
- GEM (Groupe des Ecoles des Mines), France
- WNU-School of Uranium Production, Straz pod Ralskem, Czech Republic
- and others from Australia, Canada, Russia, Argentina, Brazil, China, Kazakhstan etc.



# What do we want?



# What do we really need?

- To learn and to teach how to implement good practices available
  - from simple to more complicated
  - from self-regulation to normal regulation to reach certain quality necessary to sustain

# A network on UPC training and education

## What should be defined?

- **Needs**
  - why should so. be trained?
  - what should be trained?
  - how it should be trained?
- **Possibilities**
- **Limitations**
- **Procedures**
- **Extent**

## A network on UPC training and education

### Coming steps

- **Contacting potential partners**
- **Defining background materials**
- **Organising a starting meeting**
- **Giving a birth to the network**
- **The hard work must go on...**

# Our objective is .....



a remediated uranium mine used for a trout fishing club.....

.....not this – an abandoned uranium mine site





# THANK YOU FOR YOUR ATTENTION

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