

International Conference on Human Resource Development for Nuclear Power Programmes: Building and Sustaining Capacity (Strategies for Education and Training, Networking and Knowledge Management) IAEA CN-215

Monday, May 12, 2014 - Friday, May 16, 2014

IAEA, Vienna

Scientific Program

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OBJECTIVES

The objectives of the conference are to:</div>

Review developments in the global status of HRD since the 2010 international conference;

Emphasize the role of human resources and capacity building programmes at the national and organizational level for achieving safe, secure and sustainable nuclear power programmes;

Discuss the importance of building competence in nuclear safety and security;

Provide a forum for information exchange on national, as well as international, policies and practices;

Share key elements and best practices related to the experience of Member States that are introducing, operating or expanding nuclear power programmes;

Highlight the practices and issues regarding HRD at the organizational and national level;

Highlight education and training programmes and practices;

Emphasize the role of nuclear knowledge management for knowledge transfer and HRD; and

Elaborate on the role and scope of various knowledge networks.

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FORMATS AND TOPICS

A preliminary programme will be made available on the conference web page well in advance of the conference. The final programme and the Book of Contributed Papers will be available upon registration at the conference.

The conference will consist of an opening plenary session, five topic-specific sessions, and a closing plenary session.

To meet the conference's objectives, each topical session will have the following format:</div>

Presentations by invited keynote speakers;

A set of presentations that supplement specific areas within the topical session and stimulate discussion among conference participants; and

A set of interactive presentations that present state-of-the-art information and knowledge in the subject area.

Session 1: Human Resources and Capacity Building

This session will cover the following topics:

- Global demand for and supply of human resources for the establishment and management of nuclear power programmes; - Feedback from relevant surveys carried out by the IAEA and other

organizations; and - Initiatives to enhance knowledge and understanding of the relationship between nuclear safety and security.

Session 2: Building and Sustaining Capacity through Education and Training

This session will cover the following topics: - Education and training for specific target groups or organizations;

- Education and training — national initiatives, programmes and challenges;
- Innovative tools and techniques for education and training;
- Approaches to the assessment of training needs: lessons learned; and
- Competency framework: application of a uniform model.

Session 3: Preparing the Next Generation of Nuclear Professionals

This session will cover the following topics: - Outreach through education as a tool for HRD and enhancing public understanding of nuclear power;

- The role of women in the current and future generations of nuclear professionals;
- Attracting young talent into nuclear power programmes; and
- Convergence of education and training activities: using practitioners to educate and educators to train.

Session 4: Knowledge Management

This session will cover the following topics:

- Knowledge management across the life cycle (e.g. knowledge generation, capture, validation, transfer, and preservation);
- Knowledge management integration into day to day activities;
- Assessment of knowledge management maturity for Member States embarking on or expanding nuclear power programmes;
- Knowledge management implementation issues for different nuclear organizations; and
- Capturing and preserving knowledge, with an emphasis on the needs of newcomer countries.

Session 5: Knowledge Networks

This session will cover the following topics:

- Comparative advantages of nuclear knowledge networks: a way forward;
- International initiatives, programmes and challenges in relation to knowledge networks;
- Experience related to global, regional and topical networks; and
- Methods and tools to build up sustainable knowledge networks.