

International Conference on Nuclear Knowledge Management and Human Resources Development: Challenges and Opportunities

Monday, July 1, 2024 - Friday, July 5, 2024

Scientific Programme

The following topics will be addressed during the conference:

Track 1 - KM and HRD for Building and Sustaining Capacity in Nuclear Organizations

The track covers the crucial aspects of knowledge management and human resource development within nuclear organizations. It explores the challenges and approaches involved in implementing effective KM methodologies. Discover how to map and manage competencies, cultivate a culture of knowledge sharing and enhance human resource management practices. Gain valuable insights into fostering employee performance, retention, career development and succession planning. Additionally, explore the role of leadership in driving organizational excellence and developing a diverse and inclusive workforce.

Keynote topics may include:

- Challenges and approaches for knowledge management in nuclear organizations;
- Knowledge management methodologies and implementation;
- Competency mapping and management;
- Organizational culture for knowledge sharing and excellence;
- Human resource management in nuclear organizations;
- Change management in nuclear organizations, including managing the workforce in a post-pandemic world;
- Human performance monitoring and improvement;
- Behavioural assessment programmes for employee performance;
- Retention of professionals in nuclear organizations;
- Training, certification and continued professional development;
- Career development and succession planning;
- Developing an inclusive and diverse workforce in nuclear organizations;
- Leadership function and development within nuclear organizations.

Track 2 - Nuclear Education and Outreach

The track focuses on nuclear education and outreach, gains insights into strategies and initiatives that aim to engage and inspire the younger generation in academia and the nuclear industry. It includes collaborative efforts, innovative programs and impactful experiences driving the advancement of nuclear education and outreach.

Keynote topics may include:

- Attraction and retention of the young generation to nuclear academia and industry;
- Making nuclear careers attractive to high school students;
- Vocational education for nuclear power programmes, including reskilling of professionals from fossil fuel industries to nuclear organizations;
- Educational infrastructure to support national nuclear programmes;
- Industry, academia and government collaboration;
- Nuclear and radiological facilities for experiential education and training;
- University and media collaboration for outreach;
- Networking and technical communities of practice;
- Educational technologies to enhance learning, including knowledge networks;
- Lessons learned from pandemic experiences.

Track 3 - KM and HRD to support Advanced Technologies

This track focuses on the vital role of knowledge management and human resource development in supporting advanced technologies within the nuclear industry. Explore strategies, digital tools and collaborative approaches that enhance KM and HRD to ensure safe and sustainable nuclear power programmes. Gain insights from experiences in information management, long-term operation, decommissioning, non-power applications, fusion activities and lessons learned from diverse industries.

Keynote topics may include:

- Strategies and policies to support nuclear knowledge management and human resources development;
- R&D and innovation for KM and HR to support safe and sustainable nuclear power programmes;
- Smart digital tools and applications to transform industry and develop the competencies required for new technologies, including AI and VR applications for KM and HR
- Technology to support new methods of information and data management;
- KM for long term operation and decommissioning;
- KM for non-power nuclear science and applications;
- KM to support fusion activities and other advanced technologies;
- Internal/external collaboration for knowledge management;
- Lessons learned from other industries.