

International Conference on Nuclear Security: Shaping the Future



Monday, 20 May 2024 - Friday, 24 May 2024

Vienna International Centre

Scientific Programme

Conference Themes

Consistent with the objectives outlined for ICONS 2024, the overall themes for the conference will include:

Policy, Law and Regulations for Nuclear Security (PR)

- International framework for nuclear security, including legally binding and non-binding instruments
- Regulation development and implementation
 - *Support for embarking countries*
 - *Approaches to regulation (prescriptive, performance-based, technology neutral)*
 - *Challenges in meeting changing demands due to emerging technologies and emerging threats*
 - *Tools and approaches for regulators for evaluation of policy and regulations*

Technology and Infrastructure for Nuclear Security Prevention, Detection and Response (TI)

- Current and existing technologies including issues related to aging facilities and lifecycle management, research reactors, decommissioned facilities and facilities being decommissioned, and other facilities using and/or manufacturing nuclear or other radioactive material
- Emerging nuclear technologies including small modular reactors, micro reactors, other novel reactor designs, spent fuel storage and disposal, and evaluation of such technologies in relation to nuclear security
- Emerging non-nuclear technologies including artificial intelligence, uncrewed systems, etc. (both as potential tools for nuclear security and as potential risks) and evaluation of such technologies as related to nuclear security
- Approaches to nuclear security including graded approach, defence in depth, and risk-informed
- Existing and emerging threats, prevention, protection and assessment including design basis threat, insider threat and evaluation and assessment of protection systems
- Supply chain security
- Nuclear forensics
- Materials security, including transportation of nuclear and other radioactive material, material accounting and control, national accounting and control measures, and preventing illicit trafficking
- Building and maintenance of nuclear security detection architecture
- Coordinated response to nuclear security events

Capacity Building for Nuclear Security (CB)

- Workforce development
 - *Skills for nuclear security*
 - *Cross and inter-disciplinary concepts*
- Workforce management
 - *Attracting the next generation*
 - *Retention and knowledge management*
 - *Creating and maintaining workforce diversity*

Cross-cutting Nuclear Security Topics (CC)

- Information exchange and regional and international cooperation
- Information and computer security considerations for nuclear security
- Interfaces between nuclear security and safety
- Interfaces between nuclear security and State systems of accounting and control
- IAEA assistance programmes and advisory services
- Communication on nuclear security
- Nuclear security culture
- Contribution of industry to nuclear security