

CALL FOR PAPERS

For the European Research Reactor Conference (RRFM) 2025

The European Research Reactor Conference (RRFM) 2025 will take place from 6 – 10 April 2025 in Aix-en-Provence, France.

The Research Reactor Conference (RRFM) 2025 is meant to include research reactors of all powers and critical and sub-critical facilities.

Contributions on synergies between research reactors and the development of SMR and AMR are encouraged.

The Programme Committee is calling for both oral and poster presentations regarding

- **Research reactor nuclear fuel cycle from front-end to back-end** – conversion to LEU fuels; fissile material supply; fresh fuel and targets: origin, fuel development, qualification, fabrication; in-core fuel management and safety; fuel transportation; fuel and reactor licensing; fuel back-end management including reprocessing, spent fuel storage, corrosion and degradation; fuel cycle optimisation.
- **Utilisation of research reactors** – capacity building; E&T programmes; nuclear science and technology including support for nuclear power programmes; neutron beam applications; industrial and medical applications, including radio-isotopes production and irradiation/transmutation technology; strategic and business plans; networks and coalitions; synergies between research reactors and the development of nuclear power programmes and SMR/AMR.
- **Innovative methods in reactor physics and thermo-hydraulics** – development and application of advanced computational methods and tools for core load management (operational and safety analysis, and fuel cycle physics); benchmark exercises; nuclear data improvements.
- **New research reactor projects** – national/regional plans or construction updates; lessons learned from new research reactor projects – design, construction and start of operation; proliferation resistance; development of national infrastructures; design for decommissioning.
- **Research reactor operation & maintenance and ageing management** – managing reliability issues (commissioning, early operation to

end of life related issues); ageing management, modernisation, refurbishment; maintenance management systems; human resource development and training programmes.

- **Research reactor safety and security** - implementation of updated international safety and security standards; application of graded approach to regulatory safety and security requirements; review of national regulatory requirements on safety and of licensing activities; design review and upgrades including associated facilities (spent fuel storage facilities); safety analysis methods and approaches; safety of experiments and experimental devices; assessment of fire safety; management of the interface between nuclear safety and security; cyber security issues; review of emergency and contingency plans;
- **Decommissioning and dismantling of research reactors and waste management** – strategies and concepts; radiological characterisation; decommissioning planning; economics and cost estimation; licensing; backend solutions for reflector and shielding materials; decontamination and measures to reduce radiation exposure; radiation and environmental protection; treatment, storage and disposal of radioactive waste; management of irradiated beryllium; logistics and transportation; on-going projects; D&D lessons learned,.

INSTRUCTIONS AND DEADLINES

Authors should submit their abstract through the [ENS Abstract Submission System](#).

Deadline for abstract submission: **29.11.2024**

Author notification of acceptance: **19.12.2024**

Deadline for full paper submission: **7.3.2025**

Deadline for submission of PowerPoints: **24.3.2025**

Conference: 6 – 10 April 2025

CONFERENCE SECRETARIAT: European Nuclear Society, 56 Avenue des Arts, 1000 Brussels, Belgium.

Contact: conferences@euronuclear.org; +32 473 390 932