



CALL FOR PAPERS

For the European Research Reactor Conference (RRFM) 2027

The Research Reactor Conference (RRFM) 2027 will take place from **20 – 23 April 2027** in **Prague, Czech Republic**.

The Research Reactor Conference (RRFM) 2027 is intended to include research reactors of all powers as well as critical and sub-critical facilities.

The Programme Committee is calling for **both oral** and **poster** presentations on the following topics:

- **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 treatment, conditioning and reprocessing, spent fuel storage, corrosion and degradation; fuel cycle optimisation.
- **Utilisation of research reactors** – E&T programmes; nuclear science and technology including support for nuclear power programmes; neutron beam applications; industrial and medical applications, including radioisotopes 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 infrastructure; 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; periodic safety reviews; 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.

IRIS – the International Radioisotope Supply Chain Meeting

Building on the success of the previous edition, **IRIS – the International Radioisotope Supply Chain Meeting**, will take place again during RRFM 2027 (**19 – 20 April**) in Prague.

The event offers a new meeting opportunity to the radioisotope production community to share progress, address challenges, and strengthen supply chains.

The IRIS Call for Papers will be launched on **October 1st**. Links to its individual website will be shared shortly.

RRFM 2027 Student Competition

Students of subjects of relevance for the Research Reactor Community and who are working on research topics defined in this Call for Papers and meeting the following conditions:

- *Max. 35 years old*
- *Max. 3 authors per submitted work OR 5 authors if a collaborative work between 2 or more institutes*



are invited to apply for participation in the competition.

Interested students should submit their abstract under the category '**Student Competition**'. Please refer to the [RRFM 2027 Conference website](#) for more information.

INSTRUCTIONS AND DEADLINES

Authors should submit their abstract through the **ENS Abstract Submission System**.

- Deadline for abstract submission: **4 December 2026**
- Notification of acceptance to authors: **17 December 2026**
- Deadline for full paper submission: **19 March 2027**
- Deadline for submission of PowerPoint presentations: **5 April 2027**
- Conference dates: **20 – 23 April 2027**

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