

## **CALL FOR PAPERS**

The Programme Committee of the European Research Reactor Conference would like to offer all members of the research reactor community the possibility to present projects and share knowledge in 2020. It therefore opens a short Call for Papers and invites authors to submit abstracts until 28 August 2020.

The European Research Reactor Conference will combine an in-person conference from 11 - 15 October in Helsinki, with an online event which allows delegates who cannot or who don't want to travel to Helsinki to participate and present their paper.

The Call includes the opportunity for all currently accepted authors of the European Research Reactor Conference to update and amend their contributions and include new findings and developments.

The conference is meant to include research reactors of all powers and critical and sub-critical facilities. 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 economics.
- **Utilisation of research reactors** capacity building; E&T programmes; nuclear science and technology including support

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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.

- Innovative methods in reactor physics and thermohydraulics – 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 of new research reactors; 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, modernization, refurbishment, long term operation and life-time extension; 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; safety upgrades based on the safety assessments following the Fukushima Daiichi accident; 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;
logistics and transportation; on-going projects; D&D lessons
learned.

## **INSTRUCTIONS AND DEADLINES**

Authors should submit their abstract through the <u>Abstract</u> <u>Submission System</u> (https://oass.euronuclear.org/RRFM2020).

Deadline for abstract submission: 28 August 2020

The Programme Committee of the European Research Reactor Conference organises a continuous evaluation process and intends to rapidly inform authors about the outcome. All authors will be notified the latest on **8 September 2020**.

Deadline for full paper submission: 2 October 2020

Authors opting for **remote presentation** will be asked to submit a **recording of their presentation by 25. September 2020**.

All authors have to <u>register</u> by 18 September 2020 for the conference.

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

Contact: <u>Kirsten.Epskamp@euronuclear.org</u>; +32 473 390 932

Website: <a href="https://www.euronuclear.org/rrfm-2020-helsinki">https://www.euronuclear.org/rrfm-2020-helsinki</a>