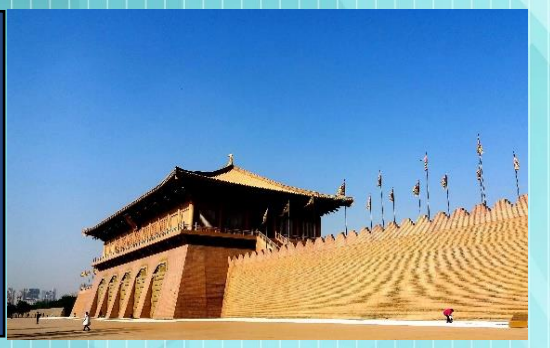
WRFPM 2023

2023 Water Reactor Fuel Performance Meeting/
Top Fuel / LWR Fuel Performance Meeting
18-21 July 2023, Xi'an, China



WRFPM 2023 – Call for papers

Pursuit of the world's highest level of nuclear safety

About the meeting

The 2023 Water Reactor Fuel Performance Meeting will be held on 18-21 July 2023, Xi'an, China. Commonly more than 300 experts from different countries and regions attended the meeting. Nuclear power renaissance in China is now on a fast track, and the Chinese Nuclear Society is honored to hold such a meeting to promote the academic exchanges among experts from around the world.

Track 1 Advances in water reactor fuel technology and testing

Advances in fuel system design, manufacturing and testing, improved fuel, cladding, structural and functional materials development , Mox fuel design and manufacturing, new fuel design, test facilities, Fuel qualification and licensing

Track 2 Operation and experience

Fuel performance , reliability and operating experience, flexible operation and core management, re-use after transportation or storage, water chemistry and corrosion counter measures, pool-side and hot-cell examination, maintenance experience, high-burn experience, MOX and reprocessed uranium fuel performance, irradiation experience in test reactors, reload variability , fuel assembly distortion

Track 3 Transient and off-normal fuel behavior and safety related issues

Fuel behavior and safety criteria, pellet-cladding interaction(PCI/PCMI/SCC), transient fission release, cladding ballooning /burst experiment and modelling, fuel behavior under extended loss of cooling, test facilities and Experiments

Track 4 Fuel cycle, used fuel storage and transportation

Closed fuel cycle, Fuel performance and characteristics for transportation and storage, fuel behavior in dry container, wet storage ponds and during transportation, criticality , feedback from

recycle and disposal, R&D activities

Track 5 Innovative fuel and related issues

Developing status and roadmap, New concept fuel, Design and fabrication, economy, core management, experiment data and analysis, fuel test, qualification and licensing, fuel cycle and back-end issues, fuel for small reactor, deployment scenarios

Track 6 Fuel modelling, analysis and methodology

Developing, verification and validation for modelling codes, experiment data and modelling, qualification and licensing for modelling codes, fuel behavior modeling for normal, transient and off-normal operation, irradiation effect and simulation, Statistical analysis and numerical treatment of uncertainty, multiscale modelling, multi-physics coupling, fuel degradation modelling

Abstract submission

1. Abstracts must be submitted electronically in PDF format. Abstract should be within 450 words with name, affiliation, country (nationality) and email information.
2. List references numerically at the end of the abstract, and use numbers in the text, enclosed within brackets.
3. The title of your abstract will be used as the title of your presentation in the preview program.
4. At least one author of accepted papers will be expected to register for the conference.
5. The contents of the abstract must include the objectives of the study/investigation and the methodology use d. It should also briefly describe the main findings and their potential applications. Sufficient information shou ld be included for an independent reviewer to determine its suitability for the conference.

Important dates

- Deadline for abstract submission: April 14, 2023
- Deadline for draft paper submission: April 30, 2023
- Deadline for final paper: May 15, 2023

For more information: http://wrfpm2023.org.cn
Conference Secretariat: wrfpm2023@163.com