TEst Conference for Katja

Monday 25 May 2026 - Thursday 28 May 2026

Beijing, China

Scientific Programme

Track 1. Innovative Fast Reactor Designs

• Advanced fast reactor concepts, including core, systems, and components design, small modular fast reactors, and deployment strategies aligned with future energy systems.

Track 2. Fast Reactor Safety and Licensing

• Safety approaches, analysis methods, passive systems, severe accident behaviour, 3S (Safety, Security, Safeguards), safety requirements and the regulatory framework for fast neutron reactors.

Track 3. Fuel Cycle Technologies and Sustainability

• Fuel cycle strategies and their impacts on waste minimization, hydro and pyro processes and associated waste streams, infrastructures, enablers (e.g., transportation).

Track 4. Fast Reactor Fuels and Materials

• Fuel and structural materials, coolant chemistry and related technologies.

Track 5. Test Facilities and Experiments

• Experimental infrastructure and test facilities, including component tests, and integral experiments.

Track 6. Modelling and Simulation

• Computational methods, multi-physics tools, validation and verification, and the use of AI and machine learning.

Track 7. Economics, Integrated Systems, and Non-Electric Applications

• Economic assessments, integration with other energy systems, non-electric uses (e.g. hydrogen production and desalination).

Track 8. Commissioning, Operation and Decommissioning

• Practical experience in starting up, operation, maintenance, and decommissioning of fast reactors, including instrumentation and control technologies, in-service inspections, and management of waste streams.

Track 9. Public Engagement, Knowledge Management, and Education and Training

• Approaches and experiences for building public support, stakeholder engagement, knowledge preservation, and training to support long-term development.