

CONFERENCE VENUE

International Conference Centre (Annex Hall) Kyoto, Japan

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Conference web sites:

www-pub.iaea.org/MTCD/Meetings/Announcements.asp?ConfID=35426
and
www.FR09.org

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Hosted by the

Japan Atomic Energy Agency



In cooperation with the

Japan Atomic Energy Commission
Ministry of Economy, Trade and Industry (Japan)
Ministry of Education, Culture, Sports, Science and Technology (Japan)
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Atomic Energy Society of Japan
European Nuclear Society
Institute of Electrical Engineers of Japan
Japan Society of Mechanical Engineers
Korean Nuclear Society

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International Conference on Fast Reactors and Related Fuel Cycles: Challenges and Opportunities FR09

7–11 December 2009
Kyoto, Japan

Organized by the
International Atomic Energy Agency



IAEA

Hosted by the
Japan Atomic Energy Agency



BACKGROUND

The necessary condition for successful fast reactor deployment in the near and mid-term is the understanding and assessment of innovative technological and design options, based on both past knowledge and experience, as well as on ongoing research and technology development efforts. In this respect, the need for in-depth international information exchange is underlined by the fact that the last large international fast reactor conference was held as far back as 1991. Since then, progress in research and development as well as design has not been reported in a coordinated manner, which has made planning and implementation of expensive research and technology development programmes rather challenging. There is a perceived need for an appropriate forum to achieve the objectives of exchanging experience and innovative ideas among experts, and of sharing knowledge and mentoring, whereby experienced scientists and technologists, as well as fast reactor programme managers, would share their perspectives with the future generation of young scientists and technologists, helping them to choose research problems of eminence and pursue their careers to meet the challenges of the development of fast reactors and related fuel cycles. After almost 20 years, this is also the appropriate time, as fast reactor programmes are currently on an accelerated growth path in many countries of the world.

OBJECTIVES

The conference aims at promoting the exchange of information on national and multi-national programmes and new developments and experience, with the goal of identifying and critically reviewing problems of importance and stimulating and facilitating cooperation, development and successful deployment of fast reactors and related fuel cycles in an expeditious manner.

AUDIENCE

The conference is dedicated to scientists and engineers from both public and private sectors, including research institutes, academia, regulatory bodies and industry. Attendance by young professionals is strongly encouraged.

MAIN TOPICS

- Advanced and innovative reactor concept designs and associated objectives and driving forces
- Recycle strategies for fast reactors and associated technologies
- Proliferation resistance and physical protection
- Economics and performance (including reliability, availability, service life, public acceptance)
- Transition scenarios: the path to fast reactor deployment
- Fast reactor safety:
 - Design and assessment approaches, issues and requirements
 - Special emphasis on severe accidents
 - Licensing issues
- Advanced fuels for fast reactors:
 - Fuel concepts, targets, high burnup fuels
 - Performance
 - Manufacturing
 - Irradiation experiments
- Structural materials: new challenges, manufacturing and performance
- Coolant technologies and instrumentation
- In-service inspection and repair
- Advanced and innovative fast reactor component and system design, and technologies (primary system, balance of plant, handling systems, simplification in plant layout, etc.)
- Past 20 years' experience with fast reactors, lessons learned and perspectives: design, construction, commissioning, operation, decommissioning
- Fundamental issues, new experiments and requirements (basic data, reactor physics, thermal hydraulics, etc.)
- Advanced simulation, modelling and verification/validation/qualification in various areas
- Availability and capability of experimental facilities
- Human resources, education, infrastructures and knowledge management

SPECIAL EVENTS

A special session in Tsuruga, with a technical visit to the Monju fast reactor, is planned for the last day of the conference. A special Young Generation Event will be organized in cooperation with the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) initiative of the IAEA.

EXHIBITS

A limited amount of space will be available for commercial vendors' displays/exhibits during the conference. Interested parties should contact the Local Organizing Committee by email (info@FR09.org) as soon as possible.

WORKING LANGUAGE

English

KEY DEADLINES

30 April 2009	Submission of extended synopsis through www.FR09.org upload system
15 June 2009	Participation Form A, Paper Submission Form B and (if grant is requested) Grant Application Form C to be received by IAEA through official channels
End June 2009	Notification of paper acceptance to authors
6 Nov. 2009	Submission of full paper through www.FR09.org upload system
30 Nov. 2009	Form A to be received by IAEA through official channels from participants without paper submission