

Advanced fuels and fuel performance issues workshop

10-11 March 2026

**Aix-En-Provence,
France**

Register for the workshop at this link

Deadline: 30 January 2026

The workshop format consists in 1.5 days of presentations and discussions – where participants will share recent advances regarding nuclear fuel – and a half-day dedicated to visiting an installation.

Presentations will be 20 minutes long, followed by 10 minutes for discussion. No paper submission is required. This event is intended for researchers, PhD students, and engineers interested in advanced nuclear fuels for fast reactors.

TOPIC #1

**Advanced Fuels
(oxide, metallic,
nitride)**

- Behaviour under steady-state and transient conditions
- Ongoing research and development
- Experimental irradiations
- Thermal and physical properties

TOPIC #2

**Fuel Performance
Issues**

- EU needs for fast reactors fuels
- Cladding behaviour & issues
- Fuel performance codes validation
- Complementary tools for physical modelling (thermochemistry, microstructure, ...)

TOPIC #3

Fuel Cycle

- Uranium resources issues
- Fuel reprocessing
- Spent fuels valuation
- Associated costs



VISIT

ITER (International Thermonuclear Experimental Reactor), one of the most ambitious projects in the field of energy.

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