

European Workshop on

# Safety Assessment of Fast Neutron Reactors

Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH  
D-85748 Garching, Germany  
July 10-12, 2017



## Workshop Organization

This Workshop (W7) is jointly organized in the frame of FP7 ESNII+ WP5 by GRS & SCK-CEN.

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## Objectives of the Seminar

The objective of this Workshop is dedicated to introduction to the safety assessment of fast neutron reactors: strategy, methodology (technical aspects), and legislation. The focus is on the 4<sup>th</sup> Generation ESNII fast reactor demonstrators cooled with liquid metals (sodium, lead, lead-bismuth) and helium.

## General context

The 4th Generation ESNII fast reactor demonstrators represent an important cornerstone on the way to the corresponding commercial reactors. Design and safe operation of fast neutron reactors systems involve the necessity to promote R&D on state-of-the-art safety assessment methodologies and codes. This workshop will involve lectures focused on concepts and safety features of fast spectrum reactors, nuclear safety and licensing/regulatory aspects, experimental facilities and benchmarks in support of safety studies, and computational safety assessment methods and codes.

## To whom it is addressed

The focus of this Workshop is on main safety issues of fast neutron reactor systems (SFR, LFR, GFR) including source-driven subcritical systems for transmutation applications. Its intention is to promote an active information exchange among students, young professionals and specialists involved in safety assessment application and R&D, and so provides a platform for discussion and knowledge exchange on latest relevant topics for Fast Neutron Reactors. This Workshop welcomes ESNII+ students, young professionals, specialists and members of the participant organizations. The Workshop language is English.

## Topics

The following specific topics will be addressed:

- Concepts and Safety Features of Fast Spectrum Reactors – the ESNII+ scope
- Nuclear Safety and Licensing & Regulatory Aspects
- Experimental Facilities and Benchmarks in Support of Safety Studies
- Computational Safety Assessment Methods and Codes
- EU projects: Current Status and Near Future

## Venue

Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH  
Forschungszentrum, Boltzmannstr. 14  
D-85748 Garching (near Munich), Germany

## Fees

The workshop is free of charge for all participants.

## Contact information

A guided tour at either the *Research Neutron Source Heinz Maier-Leibnitz (FRM II)* of Technical University of Munich (TUM) ([www.frm2.tum.de](http://www.frm2.tum.de)) or experimental facilities of the Chair of Thermodynamics of TUM is foreseen.

## Accommodation

The GRS Garching location is situated at the Garching Forschungszentrum (Research Center, Campus Technical University of Munich) about 20 km north of Munich city center ([http://www.grs.de/sites/default/files/Anfahrt\\_Garching.pdf](http://www.grs.de/sites/default/files/Anfahrt_Garching.pdf)). There is a direct underground („U-Bahn“) connection between Garching and Munich city center. For hotels in the Munich area, please contact, e.g., [www.booking.com](http://www.booking.com) or similar reservation services. Some hotels in Garching: Hotel am Park (<http://www.hotel-am-park.com>), Hotel Hoyacker Hof (<http://www.hoyackerhof.de>), Hotel König Ludwig (<http://www.hkl.de>), Hotel Maria (<http://www.marias-inn.de>); see also Etap, Ibis and Motel One directly at U-Bahn stop „Garching Hochbrück“.