

# Workshop on the Safety of Small Modular, Advanced and Fusion Reactors

projects HARMONISE, ECC-SMART, McSafer, ELSMOR  
Hotel Evropa, Celje, Slovenia (<https://hotel-evropa.si/>)  
June 20-21, 2023

Logistic information: <https://r4.ijs.si/harmonise-workshop-sl>  
Hybrid. Connect to: <https://zoom.us/j/99535416999?pwd=VDJTQVJJY1lnOWE2dWZPVGpRDI4dz09>  
(Zoom) Meeting ID: 995 3541 6999 Passcode: 528709

## Preliminary Program

### Last updated: June 6, 2023

The safety and licensing aspects of the advanced nuclear reactors and facilities are crucial for reliable, safe and competitive construction and operation of future nuclear facilities. The Workshop participants will discuss the opportunities and challenges in researching and developing the technical approaches, methods and criteria for the development of safety cases of future nuclear facilities, which form the basis for the licensing process.

The two-day workshop will be devoted to the technical presentations by participants of projects HARMONISE, ECC-SMART, McSafer and ELSMOR, which will be enriched with insight from guests active in international organizations dealing with nuclear and non-nuclear safety cases and regulations.

The workshop will bring together the European and international efforts to promote, sustain and increase the stakeholder's awareness on the on-going efforts to develop strong safety cases for small modular, advanced and fusion reactors.

<b>June 20, 2023</b>	<b>9:00 Registration</b>			
<b>Tuesday</b>	<b>9:30 Opening</b>			
	9:30 Welcome	Leon Cizelj, Egidijus Urbonavičius		
	9:40 Purpose of the Workshop	Leon Cizelj, Kateryna Piliuhina		
	<b>10:00 Invited Contributions</b>	<b>Chair: Egidijus Urbonavičius</b>		
	10:00 EU-SMR pre-partnership activities – regulatory point-of-view Overview of Nuclear Harmonization and Standardization Initiative Regulatory Track and IAEA Activities on New Technologies Safety and Regulation	Eetu Ahonen Paula Calle Vives	ENSREG, STUK IAEA	Remote On Site
	<b>11:30 Coffee Break</b>			
	<b>11:45 Invited Contributions</b>	<b>Chair: Mirela Nitoi</b>		
	11:45 OECD/NEA SMR Dashboard	Diane Cameron	OECD/NEA	Remote
	12:30 Fusion Safety approaches	Joelle Elbez-Uzan	EuroFusion	Remote
	<b>13:15 Lunch</b>			
	<b>14:15 Invited Contributions</b>	<b>Chair: Thomas Schulenberg</b>		
	14:15 EURATOM Work Programme 2023-24-25	Cristina Fernandez Ramos	EC DG RTD	Remote
	14:45 Principles for aviation safety regulation in EU	Yves Morier	Retired at EASA	On Site
	<b>15:30 Coffee Break</b>			
	<b>16:00 Projects focusing on SMR design and safety</b>	<b>Chair: Ivan Otić</b>		
	16:00 HARMONISE project overview	Egidijus Urbonavičius	LEI	On Site
	16:30 ECC-SMART project overview	Monika Šipova	CVR	Remote
	17:00 Elsmor project	Ville Tullki	VTT	Remote
	17:30 ALFRED: the European initiative towards Lead-cooled Fast Reactors	Giacomo Grasso	ENEA	Remote
	<b>18:00 Adjourn</b>			
<b>June 21, 2023</b>	<b>9:00 (safety relevant) features</b>	<b>Chair: Mitja Uršič</b>		
<b>Wednesday</b>	9:00 Overview of McSafer project	Victor Hugo Sanchez Espinoza	KIT	Remote
	9:30 Safety systems required for a supercritical water-cooled reactor	Thomas Schulenberg	KIT	On Site
	10:00 Thermal hydraulics safety considerations in ECC-SMART	Ivan Otić	KIT	On Site
	10:30 ECC-SMART material cladding selection: the first reactor safety barrier	Alberto Saez Maderuelo	CIEMAT	On Site
	<b>11:00 Coffee Break</b>			
	<b>11:30 (safety relevant) features</b>	<b>Chair: Andreas Ikonopoulos</b>		
	11:30 Neutronics safety considerations of ECC-SMART	Szabolcs Czifrus	BME	TBC
	12:00 Towards pre-licensing of ECC-SMART	Andrej Prošek/Ildikó Boros	JSI/BME	On Site
	12:30 HARMONISE project and stakeholders involvement	Mirela Nitoi	RATEN	On Site
	13:00 The vision for a bidimensional harmonisation in the licensing framework	Giacomo Grasso	ENEA	Remote
	<b>13:30 Lunch</b>			
	<b>14:30 (safety relevant) features</b>	<b>Chair: Giacomo Grasso</b>		
	14:30 Towards Performance-Based Regulatory Framework for Advanced Nuclear Reactors	Alex Matev	BelV	On Site
	15:00 Towards new technologies, Codes and standards challenge	Lucien Allais	CEA	On Site
	<b>15:30 Coffee Break</b>			
	<b>Discussion/Summary/Wrap-up</b> moderated panel with invited speakers: discuss the information given at the workshop and try to formulate a few messages	<b>panelists Yves, Thomas, Paula, moderator Leon</b>		
	<b>16:00 Adjourn</b>			
	19:30 Teambuilding			
<b>June 22, 2023</b>	<b>9:00 Harmonize Project Meeting</b>			

**Thursday**

11:00 Coffee  
12:30 Lunch  
16:00 Adjourn