

IAEA EVT2404560
Joint IAEA-NEA-EC/JRC Workshop on the Taxonomy and Related Terminology
of Fuel Cycles for Molten Salt Reactors, 3 - 7 November 2025
Vienna International Centre, Room M4 (M Building)

Monday, 3 November 2025			
9:30 – 9:45	1.	Welcome Address - Director - Nuclear Fuel Cycle and Waste Technology Division	Ms Olena Mykolaichuk (DIR-NEFW, IAEA)
9:45 – 11:00	2.	- Opening Remarks - Scientific Secretaries - Overall Objectives of the Workshop - Introduction of Participants - Adoption of the Agenda	Ms Amparo Gonzalez-Espartero (IAEA) Mr Shahab Dabiran (OECD/NEA) Mr Pavel Soucek (EC/JRC)
11:00 – 11:30 Coffee Break			
11:00 – 11:30	3.	Closing the Nuclear Fuel Cycle Using Molten Salt Reactor Technology	Ms Patricia Paviet (PNNL, USA)
11:30 – 12:30	4.	Why a Molten Salt Fuel Cycle Necessitates a Conversation About Language	Mr Mike Edmondson (UK NNL, UK)
12:30 – 13:00	5.	Molten Salt Reactors Taxonomy and Fuel Cycle Performance	Mr Jiri Krepel (PSI, Switzerland)
13:00 – 14:15 Lunch Break			
14:15 – 14:40	6.	MSR Modeling Capabilities and Development with the MELCOR Reactor Simulation Code	Mr David Luxat (SNL, USA)
14:40 – 15:05	7.	Flow-sheeting Studies of the Fluoride MSR Th-breeder and MSR An-burner	Mr Jan Ulhir (National Radiation Protection Institute (SÚRO), Czech Republic)
15:05 – 15:30	8.	Chlorine-37 and its Utility to Enhance Reactor Longevity	Mr Bruce McNamara (PNNL, USA)
15:30 – 16:00 Coffee Break			
16:00 – 16:25	9.	Introduction of U.S. Fuel Cycle Options and Screening Studies	Mr Taek Kim (ANL, USA)
16:25 – 17:15	10.	General discussion and details on the organization of break-out sessions	All + Scientific Secretaries
17:15 – 17:30	11.	Wrap-up of the day	Scientific Secretaries

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Tuesday, 4 November 2025			
9:15 – 9:55	12.	Molten Salt Reactor Safeguards US-UK Bilateral Cooperation on a Safeguards Analysis for a Nominal Molten Salt Reactor Design	Mr Jake McComb (IAEA) Mr Mike Edmondson (UK NNL, UK)
9:55 – 10:20	13.	The Effect of Impurities on Fuel Salt Properties	Ms Melissa Rose (ANL, USA)
10:20 – 10:45	14.	Modeling Molten Salt Reactors for Fuel Cycle Studies - Preliminary Work on a Plutonium-Americium Fueled Chloride Fast Reactor Simulation Studies	Ms Camille Laguerre (CEA, France)
10:45-11:15 Coffee Break			
11:15 – 11:40	15.	MuSTAR Superconducting Accelerator-Driven Subcritical UNF-Fueled Molten-Salt	Mr Rolland Johnson (Muonsinc, USA)
11:40 – 12:05	16.	The Fuel Cycle for Mosart: Taxonomy and Terminology Related Issues	Mr Viktor Ignatiev (NRCKI, Russian Federation)
12:05 – 12:30	17.	Development of Nuclear Fuel Cycle Terminology Standards in ISO	Mr Michael Brisson (ISO and DOE, USA)
12:30 – 13:45 Lunch Break			
13:45 – 15:30	18.	Break-out working sessions on taxonomy for MSR's fuel cycles	4 Working Groups (1 on-line and 3 in-person)
15:30 – 16:00 Coffee Break			
16:00 – 17:30	19.	Break-out working sessions on taxonomy for MSR's fuel cycles (<i>Continuation</i>)	4 Working Groups (1 on-line and 3 in-person)
Adjourn 17:30			
19:00 - Partially-Hosted Hospitality Event  https://www.strandcafe-wien.at/ Florian-Berndl-Gasse 20, 1220 Vienna			

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Wednesday, 5 November 2025			
9:30 – 9:55	20.	Overview of Separation Methods Applicable for the Molten Salt Reactor Fuel Cycle	Mr Pavel Soucek (JRC, EC)
9:55 – 10:20	21.	Development of Pyrochemical Treatment Process for Used Molten Salt Fast Reactor Fuels: Novel Process for Removal and Vitrification of Fission Products in Molten Salt	Mr Tsuyoshi Murakami (CRIEPI, Japan)
10:20 – 10:45	22.	Off-Gas for Molten Salt Reactors – Radionuclide Confinement	Ms Joanna McFarlane (ORNL, USA)
10:45-11:15 Coffee Break			
11:15 – 11:40	23.	Exploring Used Salt Treatment Options Based on La Hague Hydrometallurgical Processes	Ms Isabelle Morlaes (Orano, France)
11:40 – 12:05	24.	The Role of Fluoride Volatility Method in Molten Salt Reactor Fuel Cycles	Mr Taizo Shibuya (NEC, Japan)
12:05 – 13:20 Lunch Break			
13:20 – 15:30	25.	Break-out working sessions on taxonomy for MSR's fuel cycles (<i>Continuation</i>)	4 Working Groups (1 on-line and 3 in-person)
15:30 – 16:00 Coffee Break			
16:00 – 17:30	26.	Presentation of taxonomy findings and discussions (all groups together)	All groups together
Adjourn 17:30			

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Thursday, 6 November 2025			
9:30 – 11:00	27.	Break-out working sessions on terminology for MSR's fuel cycles (<i>Continuation</i>)	4 Working Groups (1 on-line and 3 in-person)
11:00 – 11:30 Coffee Break			
11:30 – 13:00	28.	Break-out working sessions on terminology for MSR's fuel cycles (<i>Continuation</i>)	4 Working Groups (1 on-line and 3 in-person)
13:00 – 14:15 Lunch Break			
14:15 – 15:40	29.	Break-out working sessions on terminology for MSR's fuel cycles (<i>Continuation</i>)	4 Working Groups (1 on-line and 3 in-person)
15:40 – 16:00 Coffee Break			
16:00 – 17:30	30.	Presentation of terminology findings and discussions (all groups together)	All
Adjourn 17:30			

Friday, 7 November 2025			
9:30 – 11:00	31.	Summaries on terminology and taxonomy	All
11:00 – 11:30 Coffee Break			
11:30 – 12:30	32.	Discussion on ways to move forward and next steps and activities	All
12:30 – 13:00	33.	Conclusions from the WS and wrap-up	All
Adjourn 13:00			