



Agenda

Agenda as of November 18th, 2025

Event contact	General Chair: Kevin Robb; robbkr@ornl.gov Alternate General Chair: Joanna McFarlane; mcfarlanej@ornl.gov Administrative Support: Kendall Hastings; hastingskg@ornl.gov	
Molten Salt Reactor Workshop 2025 Tuesday, November 18th, 2025		
Time	Event	Speaker(s)
8:00am – 9:00am	Breakfast (provided) and Registration	
8:15am – 8:25am	Call to Order/Welcome	Kevin Robb, Oak Ridge National Laboratory
8:25am – 8:45am	Working Breakfast: MSR Campaign	Patricia Paviet, Pacific Northwest National Laboratory
8:45am – 10:05am	Fuel Salt and Strategic Materials	Joanna McFarlane, Oak Ridge National Laboratory John Elling, Molten Salt Solutions Toni Karlsson, Idaho National Laboratory Brittney Blackwood, AlphaTech Ralph Hania, NRG PALLAS
10:05am – 10:20am	Break	
10:20am – 11:35am	Fuel Cycle	Richard Mayes, Oak Ridge National Laboratory Mike Stake, Metatomic Energy Christina Leggett, Oklo Bill Phillips, Idaho National Laboratory Melissa Rose, Argonne National Laboratory
11:35am – 12:55pm	Working Lunch (provided)	Ben Snyder, Fissionaire
12:55pm – 1:35pm	Lightning Talks	Hunter Andrews, Oak Ridge National Laboratory Hansol Kim, Texas A&M University Toni Karlsson, Idaho National Laboratory - NRIC Ammon Williams, Idaho National Laboratory Shaheen Dewji, Georgia Institute of Technology Nayoung Kim, Massachusetts Institute of Technology Jihun Kim, Seoul National University
1:35pm – 2:35pm	Advanced Materials and Manufacturing 1	Rishi Pillai, Oak Ridge National Laboratory Caitlin Huotilainen, TerraPower Cem Topbasi, Electric Power Research Institute Adrien Couet, Univ. of Wisconsin - Madison
2:35pm – 2:50pm	Break	
2:50pm – 3:05pm	Director's Remarks	Stephen Streiffer, Oak Ridge National Laboratory
3:05pm – 3:30pm	DOE Regulatory Development Program Initiatives to Meet the Nuclear Presidential Executive Orders	Scott Ferrara, Idaho National Laboratory



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Molten Salt Reactor Workshop 2025 Tuesday, November 18th, 2025		
Time	Event	Speaker(s)
3:30pm – 4:55pm	Developer Forum 1	Patricia Paviet, Pacific Northwest National Laboratory Saltfoss, Esben Klinkby Thorizon, Sander de Groot Fissionaire, David Holcomb
4:55pm – 5:00pm	Closing Remarks	Kevin Robb, Oak Ridge National Laboratory
5:00pm	Adjourn	



Agenda

Molten Salt Reactor Workshop 2025 Wednesday, November 19th, 2025

Time	Event	Speaker(s)
8:00am – 9:00am	Breakfast (provided) and Registration	
8:15am – 8:30am	Call to Order, Working Breakfast, Opening Remarks	Kevin Robb, Oak Ridge National Laboratory
8:30am – 10:00am	Civil Maritime Applications	Marc Fialkoff, Oak Ridge National Laboratory Jason Karcz, Oak Ridge National Laboratory Chris Staab, Core Power Meg Dowling, Lloyd's register Alex Enders, Oak Ridge National Laboratory
10:00am – 10:15am	Break	
10:15am – 11:35am	Perspectives on Safeguards and Security Panel	Logan Scott, Oak Ridge National Laboratory Lester Towell, Abilene Christian University NEXT Lab Karen Hogue, Oak Ridge National Laboratory Johnathan Scherr, Natura Resources Eva Uribe, TerraPower
11:35am – 12:55pm	Working Lunch (provided)	Keith Michaud, Merrick
12:55pm – 1:35pm	Lightning Talks	Hunter Andrews, Oak Ridge National Laboratory Adam Burak, Arbor Halides Tomoaki Imai, MiRESSO Co., Ltd. Maria Inman, Faraday Technology, Inc. Alex Gomez, Core Power Loyal Fischer, KSB Evan Pilant, Sporian Microsystems, Inc.
1:35pm – 3:05pm	Modeling and Simulation Advancements	Bob Salko, Oak Ridge National Laboratory Yonghee Kim, Korea Advanced Institute of Science and Technology Ben Collins, University of Texas at Austin & Veracity Mauricio Tano Retamales, Idaho National Laboratory Matthew Christian, Sandia National Laboratories Izak De Kock, NRG PALLAS
3:05pm – 3:20pm	Break	
3:20pm – 4:45pm	Developer Forum 2	Melissa Rose, Argonne National Laboratory Wielenga Innovation Foundation, Thomas Wielenga Stellaria, Antoine Gerschenfeld TerraPower, Eva Uribe
4:45pm – 4:50pm	Closing Remarks	
4:50pm – 7:00pm	Poster Session, Working Reception in lieu of Dinner	Richard Reed, Oak Ridge National Laboratory
7:00pm	Adjourn	



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Molten Salt Reactor Workshop 2025 Thursday, November 20th, 2025

Time	Event	Speaker(s)
8:00am – 9:00am	Breakfast (provided) and Registration	
8:15am – 8:25am	Call to Order, Working Breakfast, Opening Remarks	Kevin Robb, Oak Ridge National Laboratory
8:25am – 8:50am	Licensing Insight	Ben Beasley, Natura Resources
8:50am – 10:10am	Advanced Materials and Manufacturing 2	Caitlin Huotilainen, TerraPower Ramanathan Krishnamurthy, Haynes Int. Joe Hensel, HybriMet LLC Rishi Pillai, Oak Ridge National Laboratory David Lambertin, NAAREA
10:10am – 10:25am	Break	
10:25am – 11:50am	Developer Forum 3	Joanna McFarlane, Oak Ridge National Laboratory Kairos Power, Gus Merwin Copenhagen Atomics, Aslak Stubsgaard Natura Resources, Michael Stoddard
11:50am – 11:55am	Poster Awards	
11:55am – 1:15pm	Working Lunch (provided)	Richard Howard, Oak Ridge National Laboratory
1:15pm – 1:30pm	Transition to Breakouts	
1:30pm – 4:30pm	Breakout 1: Manufacturing Demonstration Facility Tour (prior signups required)	



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Molten Salt Reactor Workshop 2025 Thursday, November 20th, 2025

Time	Event	Speaker(s)	
1:30pm – 4:30pm	Breakout 2: MSR Off-gas Roadmapping		
	Time	Topic	
	1:30p – 1:40p	Road map introduction	Hunter Andrews, Oak Ridge National Laboratory
	1:40p – 2:00p	Off-gas loadings and regulation	Randy Ngelale, Oak Ridge National Laboratory
	2:00p – 2:20p	Overview MSR campaign off-gas R&D	Joanna McFarlane, ORNL
	2:20p – 2:40p	Progress in the development of capture systems	Praveen Thallapally, PNNL
	2:40p – 2:55p	Break	
	2:55p – 3:35p	Off-gas R&D Panel	Joanna McFarlane, ORNL Hunter Andrews, ORNL Matt Christian, SNL Katie Johnson, ORNL Daniel Orea, ORNL Praveen Thallapally, PNNL
	3:35p – 4:25p	Off-gas Industry Panel	Patricia Paviet, PNNL Rol Johnson, Muons, Inc. Khalil Ghaleb, Orano Aslak Stubsgaard, Copenhagen Atomics Kim Pamplin, ACU David Lambertin, NAAREA Jonathan Scherr, Natura
4:25p – 4:30p	Concluding remarks	Hunter Andrews, Oak Ridge National Laboratory	

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Molten Salt Reactor Workshop 2025
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Time	Event	Speaker(s)
1:30pm – 4:30pm	<p>Breakout 3: The Molten Salt Thermal Properties Database: and Means for Use in Applications</p> <ul style="list-style-type: none"> ▪ <i>Molten Salt Thermal Properties Database – Thermochemical: A Publicly Available Extensive Set of Values and Models for Computing the State of Complex Molten Salt Systems</i> ▪ <i>The Molten Salt Thermal Properties Database - Thermophysical (MSTDB-TP): Version 4.0 Overview</i> ▪ <i>Brief overview of Saline, an open source API for MSTDB-TP</i> ▪ <i>Computing uncertainty in thermochemical models of molten salts for MSR applications</i> ▪ <i>Use of MSTDB-TP to inform ML models to predict properties</i> 	<p>Ted Besmann, University of South Carolina Alt: Tony Birri, Oak Ridge National Laboratory</p> <p>Ted Besmann, University of South Carolina</p> <p>Ryan Chesser, Oak Ridge National Laboratory</p> <p>Shane Henderson, Oak Ridge National Laboratory</p> <p>Jorge Paz Soldan Palma, University of South Carolina</p> <p>Mauricio Tano, Idaho National Laboratory</p>
4:30pm	Adjourn	