



Final Program

Via Ghislanzoni, 23900 Lecco LC (Italy)
Building 9, Room B.1.1, July 28-30, 2025

DAY 1 – Monday July 28th

13:00 – 14:00 *Welcome Coffee / Registration*

14:00 – 14:05 Welcome and General Information (*Marco Pellegrini – POLIMI*)

14:05 – 14:20 Greetings from Politecnico di Milano (*Marco Ricotti – POLIMI*)

14:20 – 15:20 Plenary Session (*Chair: Yassin Hassan - Texas A&M*)

Prof. Hisashi Ninokata (POLIMI, *Institute of Science Tokyo*) “ANS Seaborg Medal Lecture on Development and TH Safety Analysis of Liquid Metal Fast Reactors”

15:20 – 17:00 Technical Session (SMR perspectives from the Italian point of view) [20 minutes for presentation and 40 minutes for Q&A at the end of the session] (*Chair: Marco Ricotti – POLIMI, Joppe Hartog ANVS*)

- Michele Frignani (Ansaldo Nucleare) “SMR challenges and opportunities in the European context”
- Luca Mastrantonio (Enel, Nuclitalia)
- Alberto Pasanisi (Edison) “New Nuclear in Italy: Opportunities for Industry and the Country”

DAY 2, Tuesday July 29th

- 9:00 – 9:40 Keynote Session (*Chair: Marco Pellegrini - POLIMI*)
- Shinya Mizokami (TEPCO) “Fukushima Daiichi Accident progression & Lessons Learned”
- 9:40 – 11: 20 Technical Session (LWR SMR designs) [20 minutes for presentation and 20 minutes for Q&A at the end of the session] (*Chair Emilio Baglietto- MIT, Valeria Parrinello – Newcleo*)
- Juswald Vedovi (GE Vernova Hitachi Nuclear Energy) “Overview of the Design and Features of the BWRX-300 plant”
 - Tobias Strömgren (Westinghouse Electric Company) “AP300 SMR - Advanced Power Generation Solutions for the 21st Century
 - George Harker-Smith (HOLTEC Britain) “SMR-300 Design Overview” [ONLINE]
 - Erwan Benzina (EDF) “Overview of the NUWARD Small Modular Reactor”
- 11:20 – 11:40 *Coffee Break*
- 11:40 – 13:20 Technical Session (Regulation and Licensing Challenges) [20 minutes for presentation and 20 minutes for Q&A at the end of the session] (*Chair: David Luxat – SNL and Andrew Morreale – CNL*)
- Joppe Hartog (ANVS) “Tackling regulatory challenges for licensing Advanced Modular Reactors
 - Emilio Baglietto (MIT) “An unapproved review of the evolving regulatory frameworks in the United States”
 - Alexandre Viktorov (CSNC) “Elements of the Canadian licensing process for SMR” [ONLINE]
 - Filip Murawka (PEJ) “Poland’s first Nuclear Power Plant - Project overview and status”
- 13:20 – 14:30 *Lunch Break*
- 14:30 – 15: 45 Technical Session (AMR design and related activities) [20 minutes for presentation and 15 minutes for Q&A at the end of the session] (*Chair: Igor Bolotnov – NCSU, Simon Philipp Schollenberger – Framatome Karlstein*)
- Michele Frignani (Ansaldo Nucleare) “EAGLES - An integrated European roadmap to LFR deployment”

- Valeria Parrinello (Newcleo) “Newcleo LFR design and R&D activities”
- Simon Philipp Schollenberger (Framatome Karlstein) “*SMR, AMR & Advanced Nuclear Systems. Framatome expertise, with a focus on passive systems*”

15:45 – 17: 25 Technical Session (European Projects and Energy Scenarios) [20 minutes for presentation and 20 minutes for Q&A at the end of the session] (*Chair: Igor Bolotnov – NCSU, Simon Philipp Schollenberger – Framatome Karlstein*)

- Fulvio Mascari (ENEA) “Horizon Euratom SASPAM-SA project: mid-term results”
- Nicolas Sobecki (EDF) “*Presentation of the European Project EASI-SMR (Ensuring Assessment of Safety Innovations for SMR)*”
- Stefano Lorenzi (POLIMI) “The TANDEM EU Project”
- Matteo Rocco (POLIMI) “The SESAM Approach to Optimizing Sustainable Energy Transitions: A Case Study on the Role of Nuclear Power”

DAY 3, Wednesday July 30th

8:30 – 10:10 Technical Session (SMR related experiments, codes and research) [15 minutes for presentation and 25 minutes for Q&A at the end of the session] (*Chair: Antonin Povolny – Hitachi-GE and Walter Villanueva – Bangor University*)

- Yassin Hassan (Texas A&M) “Experimental activities at Texas A&M for SMR/AMR research”
- Bao Wen Yang (DeltaEnergy) “*Investigation of Core Exit Downward Quenching, Counter Current Flow, Recirculation Mixing, Flooding, Geysering, and Natural Circulation Instability in LWR SMR*”
- Roberta Ferri (SIET) “*Experimental support at SIET for safety assessment of LWR and SMR*”
- Walter Villanueva (Bangor University) “Erosion and Corrosion in Lead Environments with the BULLET Facility”
- Andrew Morreale (Canadian National Lab.) “Key Code Modelling and Experimental Research to Support Safe Deployment of SMRs”

10:10 – 10:40	Coffee Break
10:40 – 12:25	<p>Keynote Session (SMR codes and research) [15 minutes for presentation and 30 minutes for Q&A at the end of the session] (<i>Chair: Roberta Ferri – SIET and Bao Wen Yang – DeltaEnergy</i>)</p> <ul style="list-style-type: none">• Igor Bolotnov (NCSU) “<i>Interface Capturing Simulations of Two-phase flows</i>”• Antonin Povolny, (Hitachi-GE Vernova Nuclear Energy) “Studies on natural circulation core cooling in BWRX-300 SMR”• David Luxat (Sandia National Lab.) “MELCOR and Safety Evolution”• Andreas Wielenberg, (GRS) “Code Development and Validation for SMR at GRS”• Jean-Marc Ricaud (ASNR) “ASNR R&D Strategy on Advanced Reactor Safety Assessment”
12:25 – 13:30	<p>Open Discussion “SMR and AMR: needs and challenges for education and training” stimulated by:</p> <ul style="list-style-type: none">• Marco Ricotti (POLIMI)• Emilio Baglietto (MIT)• Michele Frignani (Ansaldo Nucleare)• Juswald Vedovi (GE-Hitachi)• Erwan Benzina (EDF)• David Luxat (SNL)
13:30 – 13:40	Closing Speech