




 PAA PAŃSTWOWA AGENCJA ATOMISTYKI	 EMUG PAUL SCHERRER INSTITUT	 U.S.NRC United States Nuclear Regulatory Commission <i>Protecting People and the Environment</i>
 Sandia National Laboratories	 PSI	 Institute of Heat Engineering WARSAW UNIVERSITY OF TECHNOLOGY

**The 13th Meeting of the
„European MELCOR and MACCS User Group“**

**Organized by the Polish National Atomic Energy Agency together with the Warsaw University of Technology,
Institute of Heat Engineering, Poland as a virtual meeting in support of the Cooperative Severe Accident
Research Programme (CSARP)**

27th –29th April 2022

AGENDA

Wed April 27th: MACCS presentations

Time	Presentation title	Speaker
14:00 – 14:15 CEST	Welcome, update on the Polish NPP Programme	Prof. Mirosław Seredynski, ITC PW Ernest Staron, PAA
14:15 – 14:30 CEST	MACCS EMUG Introduction	Luis Betancourt, NRC
14:30 – 15:15 CEST	Overview of MACCS Status and Development	Jennifer Leute, SNL
15:15 – 16:00 CEST	MelMACCS 4.0.0 Overview and Demo	Mariah Smith, SNL
16:00 – 16:15 CEST	Coffee break	
16:15 – 17:00 CEST	MACCS Development for Non-LWRs	Keith Compton et al., NRC, SNL
17:00 – 17:45 CEST	Scoping Analysis of MACCS Modeling Improvements for the Study of Protective Action Recommendations	Andrew Nosek, NRC
17:45 – 18:15 CEST	Comparison of SINAC and MACCS	Gabor Horvath et al., NUBIKI, EK
18:15 – 18:30 CEST	Open Discussion on MACCS	All
18:30 CEST	Adjourn	

Thu April 28th: MELCOR presentations

Time	Presentation title	Speaker
14:00 – 14:15 CEST	Welcome, Update on the Polish NPP Programme	Ernest Staron, PAA
14:15 – 14:30 CEST	NRC Update	Hossein Esmaili, NRC
14:30 – 16:00 CEST	MELCOR Code Development Status	Larry Humphries, SNL
16:00 – 16:15 CEST	Coffee break	
16:15 – 17:15 CEST	MELCOR Practices and Input for HTGR and FHR, Fluid Fuel Point Reactor Kinetics for MSR in MELCOR	Bradley Beeny, SNL
17:15 – 17:45 CEST	Analysis of Nodalization Effects on Thermal Stratification of a Suppression Pool	Sara Ojalehto, VTT
17:45 – 18:15 CEST	Development and Application of an EPR MELCOR Model	Matthias Braun, Framatome
18:15 CEST	Adjourn	

Fri April 29th: MELCOR presentations

Time	Presentation title	Speaker
14:00 – 14:30 CEST	A Review on the Modelling Practices of iPWRs in MELCOR	Caroline Seyffert, PSI
14:30 – 15:00 CEST	An overview of MELCOR activities at Warsaw University of Technology	Piotr Darnowski, WUT
15:00 – 15:15 CEST	ENEA Activities in the Field of Severe Accidents by Using MELCOR Code	Fulvio Mascari et al., ENEA
15:15 – 15:30 CEST	Development of MELCOR v2.2 Input for the Simulation of QUENCH-06 Experiment	Matteo Garbarini et al., ENEA
15:30 – 16:00 CEST	Assessment of Containment Conditions and SAM Strategies Using MELCOR 2.2 and ASTEC V2.2 Codes	Mirco Di Giuli, Tractebel
16:00 – 16:15 CEST	Coffee break	
16:15 – 16:45 CEST	Analysis of Simultaneous SBO and LBLOCA Considering DEC equipment	Janez Kokalj et al., JSI
16:45 – 17:00 CEST	Phebus FPT-1 Uncertainty Quantification Using the MELCOR/DAKOTA Coupling in a Python Environment/Architecture	Giuseppe Agnello et al., Univ. of Palermo
17:15 – 17:45 CEST	Comparison of PHEBUS FPT1 Uncertainty Applications Using MELCOR 2.2 with Three Different Methodologies	Fabio Giannetti, Sapienza University
17:45 – 18:00 CEST	Final remarks	Piotr Darnowski, WUT, Mateusz Malicki, PSI, Larry Humphries, SNL, Ernest Staron, PAA
18:00 CEST	Adjourn	