

The 12th Meeting of the „European MELCOR and MACCS User Group“

Organized by NUBIKI - Nuclear Safety Research Institute, Hungary as a virtual meeting
In Support of the Cooperative Severe Accident Research Programme (CSARP) will be
held

12th – 16th April 2021

AGENDA

Mon April 12: MACCS Technical Presentations

Time	Presentation title	Speaker
13:30	On-line platform (WEBEX) opening	G.L. Horváth, NUBIKI
14:00 – 14:15	Welcome	A. Bareith, NUBIKI
14:15 – 14:30	MACCS EMUG Introduction	Jon Barr, NRC
14:30 – 15:30	Overview of MACCS Status and Development	Jennifer Leute, SNL
15:30 – 16:15	MACCS Near-field ATD Updates	Dan Clayton, SNL
16:15 – 16:30	Coffee break	
16:30 – 17:00	Advanced Reactor Consequence Analysis	Mariah Smith, SNL
17:00 – 17:30	Overview of the MACCS Code Utilisation to Support the ENEA EP&R Activities	Antonio Guglielmelli, ENEA
17:30 – 18:00	Open Discussion on MACCS	Keith Compton, NRC
18:00	Adjourn	

Tues April 13: MACCS Workshop

Time	Presentation title	Speaker
14:00 – 14:05	MACCS Workshop Introduction	AJ Nosek, NRC
14:05 – 14:30	WinMACCS Demonstration: Installation & Licensing, Menu Items, Starting a new Project	AJ Nosek, NRC
14:30 – 15:00	WinMACCS Demonstration: Project Properties, External Files	AJ Nosek, NRC
15:00 – 15:45	MACCS Theory: Overview and Atmospheric Dispersion	AJ Nosek, NRC
15:45 – 16:00	Coffee break	
16:00 – 16:30	MACCS Theory: Dosimetry and Protective Actions	AJ Nosek, NRC
16:30 – 17:00	MACCS Theory: Social, Economic, and Health Impacts	AJ Nosek, NRC
17:00 – 17:30	MeIMACCS Sample Problem Demonstration: How to Develop MACCS Input from MELCOR Output	Dan Clayton, SNL
17:30 – 18:00	WinMACCS Demonstration: Run Simulation, Output File	AJ Nosek, NRC
18:00	Adjourn	

Wed April 14: MELCOR workshop on MELCOR visualization

Time	Presentation title	Speaker
14:00-14:45	MELCOR Introduction	Larry Humphries SNL
14:45-15:30	SNAP: Introduction	Larry Humphries SNL
15:30-16:15	SNAP: Input Examples	Larry Humphries SNL
16:15-16:30	Coffee Break	
16:30-15:15	SNAP: Building Animations	Larry Humphries SNL
15:15-16:00	SNAP: Use of Dakota for UA	Larry Humphries SNL
16:00-18:00	MELCOR technical presentations	Larry Humphries SNL
18:00-18:30	Discussion	
18:30	Adjourn	

Thu April 15: MELCOR workshop on MELCOR visualization

Time	Presentation title	Speaker
14:00-14:30	SNAP: Recent updates	Larry Humphries SNL
14:30-15:15	MELCOR HTML Output	Larry Humphries SNL
15:15-15:30	Coffee Break	
15:30-16:15	MELCOR I/O tools	Larry Humphries SNL
16:15-17:00	QWIN MELCOR	Larry Humphries SNL
17:00-18:00	Discussion	
18:00	Adjourn	

Fri April 16: MELCOR/accident progression technical presentations

Time	Presentation title	Speaker
MELCOR- plants		
14:00-14:20	Implementation of alternative ISLOCA modelling on generic PWR	Mathieu Barbion Tractebel
14:20-14:40	MELCOR Model for the EPR - Approach and Experience	Matthias Brown Framatome
14:40-15:00	Sensitivity study of MELCOR simulation to thermal-hydraulic node schemes for Pressurized water reactor	Nan Zhao KTH
15:00-15:20	Validation of WWER-1000 MELCOR model	Oleksandr Kotsuba SSTC
15:20-15:40	Coffee break	
MELCOR- Experiments		
15:40-16:00	Source-term analysis for PHÉBUS FPT-1 with MELCOR 2.2 and 2.1	Piotr Darnowski Warsaw Univ.
16:00-16:20	Passive Recombiner model in MELCOR 2.1 and it's validation against THAI HR-1 test experimental data	Radek Polasek TES
16:20-16:40	Modeling of Phébus FPT-1 experiment in EU MUSA project	Tuomo Sevón VTT
MELCOR- ITER		
16:40-17:00	Preliminary analysis for ITER WCLL Test Blanket System with MELCOR	Matteo D'Onorio Spacienza Univ.
17:00-17:20	Coffee break	
MELCOR – General		
17:20-17:40	MELCOR DAKOTA coupling in the SNAP Environment/Architecture	Fulvio Mascari ENEA
18:00-18:20	Issues and discrepancies between SNAP visualizations and MELCOR calculations simulating THAI	Alain Flores y Flores SURO
18:20-18:40	ENEA Activities in the field of severe accidents by using MELCOR code	Fulvio Mascari ENEA

18:40-19:00	MELCOR Modeling Best Practices for High temperature Gas-cooled reactors	Bradley Beeny SNL
19:00-19:15	Final words - Adjourn	M. Malicki PSI

On-line information is available at <http://www.nubiki.hu/> or <http://www.psi.ch/emug/>