

PSI Center for Nuclear Engineering
and Sciences

The 16th EMUG Meeting of the European MELCOR and MACCS User Group

**Brno, Czech Republic
7th – 11th April, 2025**

Mateusz MALICKI : Scientist : Paul Scherrer Institut
Brno, 11 April 2025

WELCOME!!!

Let's start the 16th EMUG!!



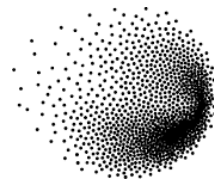
- Brno University of Technology



- TES



- Paul Scherrer Institut



PSI

- U.S. NRC and Sandia National Laboratories



**Sandia
National
Laboratories**



EMUG

THANK YOU



Partners of the EMUG 2025 meeting

The golden partners



The silver partners



The EMUG 2025 conference is held under the auspices of the Ministry of Industry and Trade of The Czech Republic

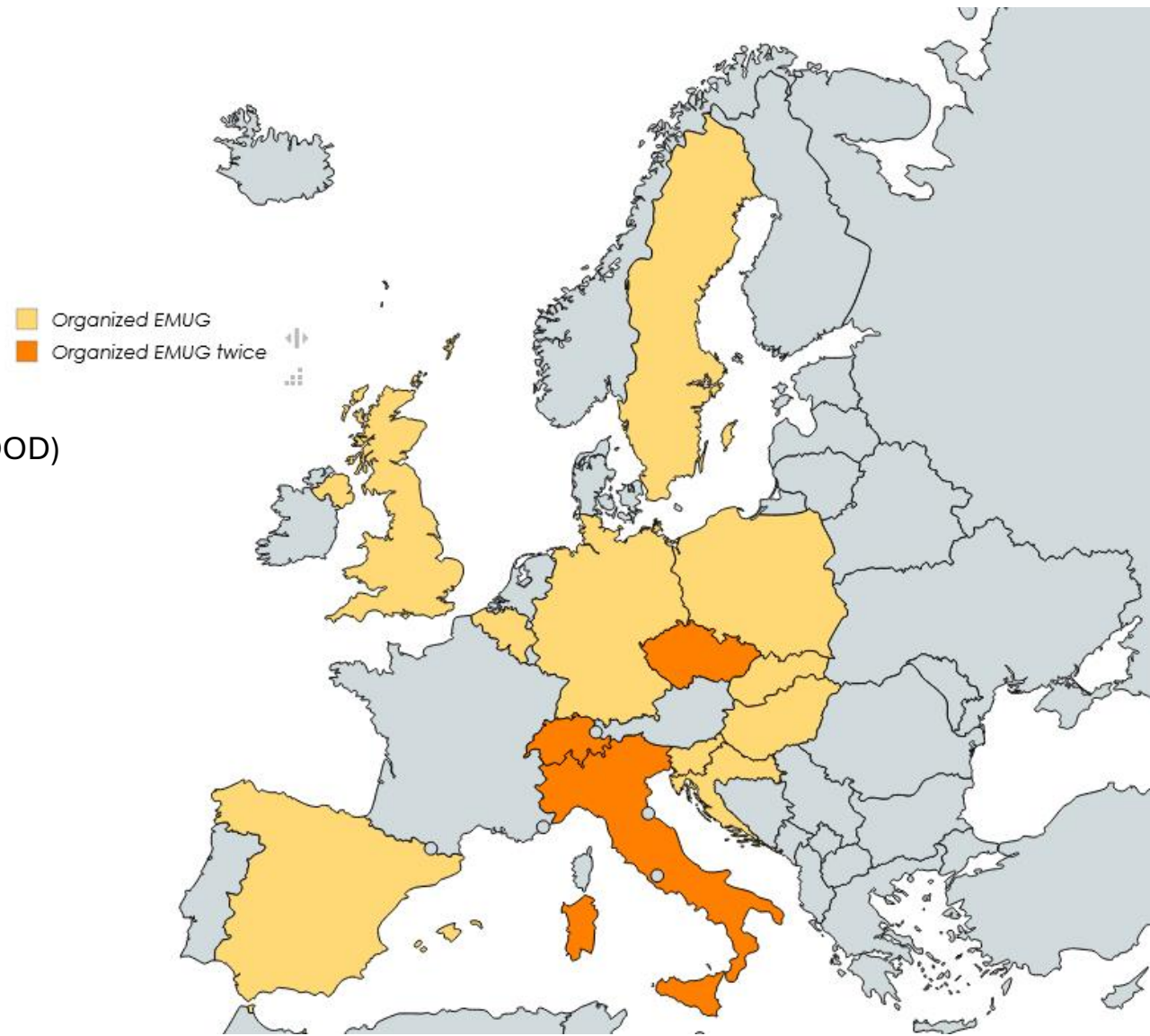


What is EMUG?



- <https://www.psi.ch/en/emug>

- | | |
|--|--|
| 1. Switzerland : Villigen (2008), | PSI |
| 2. Czech Republic : Prague (2010), | SUJB, UJV |
| 3. Italy : Bologna (2011), | ENEA |
| 4. Germany: Cologne (2012) | GRS |
| 5. Sweden: Stockholm (2013) | KTH |
| 6. Slovakia: Bratislava (2014) | UJD, VUJE |
| 7. Belgium: Brussels (2015) | BEL V, Tractebel ENGIE |
| 8. United Kingdom: London (2016) | Imperial College London,
AMEC Foster Wheeler (WOOD) |
| 9. Spain: Madrid (2017) | CIEMAT |
| 10. Croatia: Zagreb (2018) | HND, FER, DZRNS |
| 11. Switzerland : Brugg (2019) | PSI |
| COVID (2020) | |
| 12. Hungary: Budapest (2021) ONLINE | NUBIKI |
| 13. Poland: Warsaw (2022) ONLINE | PAA, WUT-ITC |
| 14. Slovenia: Ljubljana (2023) | JSI |
| 15. Italy : Rome (2024) | Sapienza University |
| 16. Czech Republic : Brno (2025) | BUT, TES |



1st Meeting of the “European MELCOR User Group”



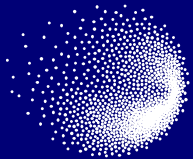
PSI, Villigen, Switzerland
December 15-16, 2008

Title	Speaker
Call for Papers	
List of Participants	
Introduction	S. Guentay
MELCOR Code Development Status, Code Assessment, and QA	L. L. Humphries
Input deck conversion (1.8.5 to 1.8.6 and 1.8.6 to 2.1)	L. L. Humphries
Experience of conversion of MELCOR 1.8.5 to 1.8.6 for VVER-440/213 reactors	G. L. Horvath
Major pitfalls in updating an accident sequence analysis with MELCOR: from 1.8.4. to 1.8.6-YT versions	M. Garcia
Preliminary assessment of MELCOR1.8.6 using integral data	J. C. Birchley
Assessment of Control Rod Release Models of MELCOR 1.8.6	B. S. Jaeckel
Current Code development: new MELCOR 2.x Code Features	N. Mosunova
Benchmark on HE-FUS3: Lessons learned from MELCOR calculations	L. Sallus
MELCOR Best Practices - An Accident Sequence Walkthrough	L. L. Humphries
Overview of MELCOR Activities in NRI Rez	J. Duspiva
The Use of MELCOR for PSA L2, Limitations and Problems	K. Mueller
Lessons learned from 15 years of MELCOR application for PSA Level 2 studies	M. Sonnenkalb
MELCOR code application to VVER440/V213 analysis	J. Jancovic
LFW-SG Accident Sequence in a PWR900: Considerations Concerning Recent MELCOR 1.8.5 / 1.8.6 Calculations	F. de Rosa
MELCOR Application to Plant Accident Analyses at PSI	Y. Liao
UK's MELCOR Activities and User Experiences Under Low Flow, Low Decay Heat Conditions	M. Turner

What is EMUG ?

It is people!





PSI

Center for Nuclear Engineering
and Sciences

THANK YOU!

Let's start 16th EMUG

Mateusz MALICKI : Scientist : Paul Scherrer Institut