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 Institute
Brno, 7 April 2025
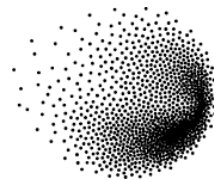
WELCOME!!!
Let's start the 16th EMUG!!

- **Brno University of Technology**

- **TES**

- **Paul Scherrer Institut**

- **U.S. NRC and Sandia National Labolatories**

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?

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

Organized EMUG
Organized EMUG twice
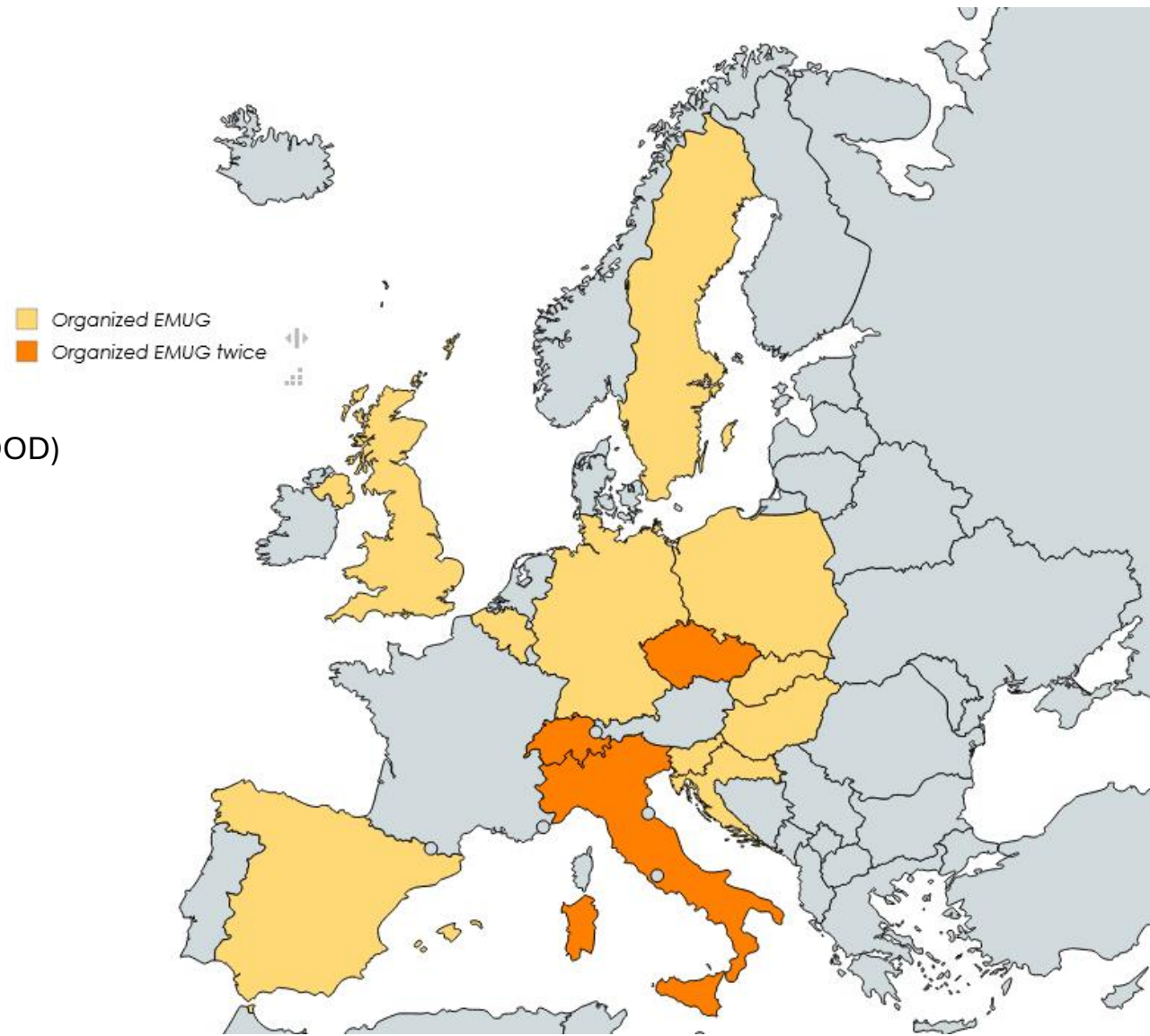
1ˢᵗ Meeting of the "European MELCOR User Group"

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 MECLOR Activities and User Experiences Under Low Flow, Low Decay Heat Conditions	M. Turner

What is EMUG ?
It is people!
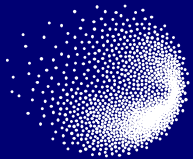
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