

AGENDA

OECD Deterministic Time-Dependent Neutron Transport Benchmark without Spatial Homogenization (C5G7-TD) – Third Workshop (C5G7-TD-3)

Host Organization

NINE Nuclear and Industrial Engineering
Lucca, Italy

May 17-18, 2018

Location – Real Collegio Palace – Piazza del Collegio, 13,
55100 Lucca (LU), Italy

The C5G7-TD-3 sessions will be held in the Workshop Room B (Closter A).

Thursday, May 17, 2018

Session 1 Chair – K. Ivanov

- 14:00 – 14:30 Introductory remarks to OECD Benchmark workshops – **I. Hill**, J. Dyrda
14:30 – 15:00 Overview and status of C5G7-TD benchmark activities – **J. Hou**, K. Ivanov, V. Boyarinov
15:00 – 15:30 Summary of comparative analysis on Phase I results (Part A) – **J. Hou**
15:30 – 16:00 Summary of comparative analysis on Phase I results (Part B) – **J. Hou**
16:00 – 16:30 *Coffee break at lounge area*

Session 2 Chair – V. Boyarinov

- 16:30 – 17:00 Continuous Energy COMET for Steady State Whole-Core Neutronics Calculations – **F. Rahnema**
17:00 – 17:30 Updated RMC results of C5G7-TD Phase I including TDW1/2 – **X. Guo**, X. Shang, S. Jiang, K. Wang
17:30 – 18:00 SUHAM-3D code for solving the 3D stationary neutron transport equation for reactors with square lattice and its verification – **V. Boyarinov**
18:00 – 18:30 nTRACER whole core transport solutions to C5G7-TD benchmark – **M. Ryu**

Friday, May 18, 2018

Session 3 Chair – K. Wang

- 8:30 – 9:00 Heterogeneous transport transient solutions to C5G7-TD benchmark with the NECP-X code – **Y. Zheng**, B. Wang, Z. Liu, L. Cao, H. Wu
9:00 – 9:30 Calculations of TDW1 Tests by SUHAM Code – **V. Boyarinov**
9:30 – 10:00 Modelling C5G7-TD using the code nTRACER and updated results at PSI – **A. Vasiliev**

10:00 – 10:30 Steady state solution of the C5G7-2D benchmark with VALKIN-FVM-Sn – **Á. Bernal**, J. E. Roman, R. Miró, G. Verdú

10:30 – 11:00 Neutron kinetics parameters calculated by SUHAM code – **V. Boyarinov**, P. Fomichenko

11:00 – 11:30 *Coffee break at lounge area*

Session 4 Chair – A. Aures

11:30 – 12:00 Phase II exercises: current status and future plan – **J. Hou**, K. Ivanov, V. Boyarinov

12:00 – 12:30 On-the-fly temperature treatment for transient calculation in RMC code – **X. Guo**, K. Li, S. Liu, K. Wang

12:30 – 13:00 Coupling scheme of the coupled neutronics and thermal-hydraulics code NECP-X/SUBSC – **Y. Zheng**, L. Cao, Z. Liu, J. Chen, Q. He

13:00 – 13:30 Discussion of Phase I summary report and Phase II specifications – All

13:30 – 14:30 *Lunch break*

Session 5 Chair – J. Hou

14:30 – 15:00 Application of time-dependent neutron transport codes to C5G7-TD benchmark: initial effort and results – **J. Hou**

15:00 – 15:30 Plans for C5G7-TD activities and next workshop – **J. Hou**, K. Ivanov, V. Boyarinov

15:30 – 16:00 Conclusion and closing remarks – **K. Ivanov**