Wednesday, September 17, 2014

9:00 – 9:30	**Coffee**
9:30 – 10:30	**Opening session** 1. Greetings from University of Cambridge 2. Greetings from Serpent developer team 3. Eugene Shwageraus – *Nuclear energy research and education at the University of Cambridge*
10:30 – 12:30	**Technical session: Spatial homogenization** 1. Jaakko Leppänen – *Automated calculation sequence for group constant generation in Serpent 2* 2. Maria Pusa – *Homogeneous diffusion flux solver in Serpent 2* 3. Mathieu Hursin – *Use of SERPENT at PSI/EPFL for thermal system analysis* 4. Emil Fridman – *Generation of SFR few-group constants with Serpent*
12:30 – 13:30	**Lunch**
13:30 – 15:30	**Technical session: Spatial homogenization** 5. Andrew Hall – *Advanced 3D cross section generation for axially heterogeneous cores (RBWR)* 6. Bernard Erasmus – *Using Serpent 2 as a cross section generation tool for the OSCAR-4 code system* 7. Diego Ferraro – *INVAP's experience using Serpent code for cell and core calculations*
15:30 – 16:00	**Coffee**
16:00 – 18:00	**Technical session: Coupled multi-physics calculations** 8. Ville Valtavirta – *Status and development of multi-physics capabilities in Serpent 2 (tentative title)* 9. Tuomas Viitanen – *TMS On-the-fly temperature treatment* 10. Dan Kotlyar – *Coupled SERPENT-TH analysis of a BWR assembly test case* 11. Miriam Däubler – *Demonstration of Full PWR Core Coupled Monte Carlo Neutron Transport and Thermal-Hydraulic Simulations Using Serpent 2/SUBCHANFLOW* 12. Manuele Aufiero – *Dynamically linked Serpent/OpenFOAM in transient mode (< 20 min)*

Thursday, September 18, 2014

9:00 – 9:30	**Coffee**
9:30 – 12:30	**Technical session: New methods in Serpent 2** 13. Jaakko Leppänen – *New CAD and unstructured mesh based geometry types in Serpent 2* 14. Toni Kaltiaisenaho – *New photon transport model in Serpent 2* 15. Maria Pusa – *Higher-order CRAM* 16. Manuele Aufiero – *Perturbation/sensitivity calculations with Serpent* 17. Tuomas Viitanen – *New Track-length estimator capability in Serpent 2.1.18*
12:30 – 13:30	**Lunch and group photo**
14:00 – 18:00	**Technical tour to Centre for Advanced Photonics & Electronics (CAPE) and Whittle and Cavendish Labs**
19:00	**Dinner**

Friday, September 19, 2014

10:00 – 10:30	**Coffee**
10:30 – 12:30	**Technical session: Gen-IV applications** 18. Hassan Mohamed – *Modelling a pin-type fuel assembly in a small fluoride high temperature reactor (FHR)* 19. Sandro Pelloni – *Sodium void coefficient map by Serpent (30 min+)* 20. Radoslav Zajac – *Serpent code using in ALLEGRO project* 21. Volodymyr Gulik – *The use of Serpent code for investigations at the University of Tartu* 22. Kien Trinh – *Modelling of a once-through MSR without online fuel processing*
12:30 – 13:30	**Lunch**
13:30 – 15:30	**Technical session: Research reactor modeling** 23. Jimmy Chow – *Modeling the ZED-2 Reactor w/ Serpent/MCNP/KENO* 24. Francois van Heerden – *Core Follow for the SAFARI-1 Research Reactor using SERPENT 2* 25. Zhiyao Xing – *CONSORT Research Reactor Modelling in Support of Conversion from HEU to LEU Fuel* 26. Yaniv Shaposhnik – *IAEA 10 MWth MTR benchmark static calculation with SERPENT code*
15:30 – 16:00	**Coffee**
16:00 – 18:00	**Technical session / Closing session**