Tuesday, October 13, 2015

17:30 - 19:00	**Registration**
19:00 - 20:00	**Welcome session** 1. Dr. Wesley Hines (UTK) - *Welcome on behalf of UTK* 2. Jaakko Leppänen (VTT) - *Greetings from Serpent developer team*

Wednesday, October 14, 2015

9:00 - 9:30	**Coffee**
9:30 - 12:00	**Technical session** 1. Tuomas Viitanen (VTT) - *Temperature treatment capabilities in Serpent 2* 2. Ville Valtavirta (VTT) - *Current Status and Applications of the Multi-physics Capabilities in Serpent 2* 3. Mohammad Hessan (Aachen University) - *Delayed Neutron Treatment in Dynamic Mode of Serpent 2* 4. Dirceu da Cruz (NRG) - *Uncertainty on Reactivity for an MTR Fuel Element due to Nuclear Data Uncertainties* 5. Manuele Aufiero (UC Berkeley) - *Implementation of new adjoint-based methods for sensitiy analysis and uncertainty quantification in Serpent*
12:00 - 13:10	**Lunch**
13:10 - 15:10	**Technical session** 1. Daniel Wooten (UC Berkeley) - *Continuous and discreet composition, redox, and reactivity control in Serpent 2* 2. Aarno Isotalo (ORNL) - *New Capabilities for the Chebyshev Rational Approximation Method (CRAM)* 3. Emil Fridman (HZDR) - *Microscopic depletion with the correction of microscopic cross sections in nodal diffusion code DYN3D* 4. Toni Kaltiaisenaho (VTT) - *Photon transport mode in Serpent 2*
15:10 - 15:30	**Coffee**
15:30 - 17:00	**Technical session** 1. Jaakko Leppänen (VTT) - *New features in Serpent 2 for fusion neutronics* 2. Paula Siren (VTT) - *Generating of fusion plasma neutron source with AFSI for Serpent MC neutronics computing* 3. Andrew Davis (University of Wisconsin) - *Modelling plasma neutron sources in fusion geometries*
18:00 - 21:00	**Dinner at Calhoun's**

Thursday, October 15, 2015

9:00 - 9:30	**Coffee**
9:30 - 12:00	**Technical session** 1. Riku Tuominen (VTT) - *Coupling Serpent and OpenFOAM* 2. Ville Valtavirta (VTT) / Miriam Knebel (Juelich) - *Monte Carlo neutron transport and thermal-hydraulic simulations using Serpent 2 / SUBCHANFLOW* 3. Ville Valtavirta (VTT) / Miriam Knebel (Juelich) - *Validation of Serpent 2-DYNSUB tool chain using the Special Power Excursion Reactor Test III (SPERT III)* 4. Emil Fridman (HZDR) - *On the use of the SPH method in nodal diffusion analyses of SFRs* 5. Emil Fridman (HZDR) - *Modeling of thermal expansion effects in SFRs with Serpent/DYN3D*
12:00 - 13:10	**Lunch**
13:10 - 17:20	**Technical visit to ORNL** • Bus transportation to ORNL • Tour at the X-10 reactor • Bus transportation back to Knoxville

Friday, October 16, 2015

Time	
9:00 - 9:30	**Coffee**
9:30 - 12:00	**Technical session** 1. Kyle Ramey (Georgia Tech.) - *Establishing a Serpent Model for I²S-LWR First Core Analysis* 2. Diego Ferraro (INVAP) - *OPAL Reactor Full 3-D Calculations including refueling* 3. Andrew Hall (University of Michigan) - *Homogenization Methods for Full Core Solution of the Pn Transport Equations with 3-D Cross Sections* 4. *Emil Fridman (HZDR) - Few-group XS generation for SFRs: lattice approach vs. full core approach* 5. Juan-Luis Francois (National Autonomous University of Mexico) - *Serpent utilization in Mexico*
12:00 - 13:10	**Lunch**
13:10 - 15:10	**Technical session:** 1. Emil Fridman (HZDR) - *Modeling of critical FREYA experiments with Serpent* 2. Ondrej Novak (UTK) - *VVER benchmark analysis using Serpent 2* 3. Cole Gentry (UTK) - *AHTR fuel optimization with Serpent* 4. Tomas Chrebet (VUJE) - *Research of the safety concept and systems design of the Generation IV reactor ALLEGRO* 5. Tomas Chrebet (VUJE) -*Research of reactivity control system of reactor ALLEGRO* 6. Tomas Chrebet (VUJE) - *Criticality analysis of ALLEGRO Fuel Assemblies Configurations*
15:10 - 15:30	**Coffee**
15:30 - 16:30	**Technical session, Open Discussion, etc.**
16:30 - 17:00	**Farewell**