

Monday, September 26, 2016

16:00 - 17:30	Registration
17:30 - 19:00	Welcome session and refreshments <ol style="list-style-type: none">1. (PoliMi) - <i>Welcome on behalf of PoliMi.</i>2. Jaakko Leppänen (VTT) - <i>Greetings from the Serpent developer team.</i>

Tuesday, September 27, 2016

9:00 - 11:00	Technical session (methods development) <ol style="list-style-type: none">1. Emil Fridman (HZDR) - <i>New method for calculating diffusion coefficients.</i>2. Jaakko Leppänen (VTT) - <i>Status and recent progress in photon transport in Serpent 2.</i>3. Jaakko Leppänen (VTT) - <i>Development of variance reduction capability in Serpent 2.</i>4. Ville Valtavirta (VTT) - <i>Coupled time dependent simulations with Serpent 2.1.27.</i>
11:00 - 11:30	Coffee break
11:30 - 13:30	Technical session (multi-physics) <ol style="list-style-type: none">1. Ville Valtavirta (VTT) - <i>Introduction to coupled multi-physics calculations with Serpent 2.1.27.</i>2. Mohammad Hessian (RWTH University of Aachen) - <i>Delayed Neutron Treatment in the Dynamic Simulation Mode of Serpent 2.</i>3. Mikolaj Kowalski (University of Cambridge) - <i>The development of Serpent-OpenFOAM environment for multi-physics calculations in Swierk Computing Centre.</i>
13:30 - 15:00	Lunch
15:00 - 16:30	Technical session (Serpent user organizations) <ol style="list-style-type: none">1. Leslie Kerby (INL) - <i>Serpent Research at Idaho National Laboratory.</i>2. Amine Bouhaddane (VUJE, a.s.) - <i>SERPENT activities at VUJE, a.s.</i>3. Stefano Lorenzi (PoliMi) - <i>Serpent activities at PoliMi.</i>
16:30 - 17:00	Coffee break
17:00 - 18:00	Technical session (depletion and group constants) <ol style="list-style-type: none">1. Jinsu Park (UNIST) - <i>Consistent code-to-code comparison of pincell depletion benchmark.</i>2. Mark DeHart (INL) - <i>The Use of Serpent 2 in Support of Modeling of the Transient Test Reactor at Idaho National Laboratory</i>

Wednesday, September 28, 2016

9:00 - 11:00	Special session of fusion-related topics <i>Presentations and discussion on fusion-related topics (open to everyone, no pre-assigned agenda).</i>
11:00 - 11:30	Coffee break
11:30 - 13:30	Technical session (group constants and reactor simulations) <ol style="list-style-type: none">1. Giorgio Baiocco (NINE) - <i>Group constant generation for PARCS using Helios and Serpent and comparison to Serpent 3D model.</i>2. Emil Fridman (HZDR) - <i>Micro-depletion and decay heat calculations with Serpent-DYN3D.</i>3. Evgeny Nikitin (HZDR) - <i>Modeling of Phenix EOL experiments with Serpent-DYN3D.</i>4. Nathaniel Read (University of Cambridge) - <i>Application of Anisotropic Diffusion Coefficient Formalism to RBWR Modelling.</i> (presented by Eugene Shwageraus)
13:30 - 15:00	Lunch
15:00 - 16:30	Technical session (sensitivity and uncertainty analysis) <ol style="list-style-type: none">1. Manuele Aufiero (UC Berkeley) - <i>Nuclear data uncertainty quantification in SFR, LFR, and MSR via Monte Carlo perturbation theory.</i>2. Dan Kotlyar (University of Cambridge) - <i>Incorporating GPT into the sub-step methodology for coupled MC codes.</i> (presented by Manuele Aufiero)3. Giorgio Baiocco (NINE) - <i>Uncertainty quantification using SCALE 6.2 and GPT techniques implemented in Serpent 2.</i>
16:30 - 17:00	Coffee break
17:00 - 17:30	Serpent demo <ol style="list-style-type: none">1. Jaakko Leppänen - <i>Practical demonstration of useful but poorly documented features.</i>
19:00	Social dinner

Thursday, September 29, 2016

10:00 - 11:00	Technical session (reactors, NOTE: start 1h later) <ol style="list-style-type: none">1. Olga Negri (University of Manchester) - <i>Coupling of Serpent and OpenFoam for MSR analysis.</i>2. Alisha Kasam (University of Cambridge) - <i>Neutronic analysis of breed and burn molten salt reactors.</i>
11:00 - 11:30	Coffee break
11:30 - 13:30	Technical session (reactors) <ol style="list-style-type: none">1. Emil Fridman (HZDR) - <i>Application of Serpent in FP7 project FREYA: Fast Reactor Experiments for hYbrid Applications.</i>2. Mikhail Onegin (PNPI) - <i>Influence of pins with burnable poisons in FA on peaking power factor of reactor PIK.</i>3. Paolo Venneri (KAIST) - <i>Serpent Neutronic Calculations of Nuclear Thermal Propulsion Reactors.</i>4. Tuomas Viitanen (VTT) - <i>Calculating Neutron Dosimeter Activation in VVER-440 Surveillance Chains Using New Variance Reduction Techniques of Serpent 2.1.27.</i>
13:30 - 15:00	Lunch
15:00 - 16:00	Technical session (SMR) <ol style="list-style-type: none">1. Yousef Alzaben (KIT) - <i>On the use of Serpent for SMR modeling and cross section generation.</i>2. Riku Tuominen (VTT) - <i>SMR multi-physics calculations with Serpent at VTT.</i>
16:30 - 18:00	Visit to DYNASTY facility and laboratories