

## Wednesday 19 September 2012

09:30-10:30	<b>Opening session (registration open at 9:00)</b> <ol style="list-style-type: none"><li>1. <i>Greetings from UPM</i></li><li>2. Jaakko Leppänen – <i>Welcome and short introduction to Serpent</i></li></ol>
10:30-11:00	<b>Coffee break</b>
11:00-12:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Emil Fridman – <i>Neutronic analysis of SFR Lattices: Serpent vs. HELIOS-2</i></li><li>2. Reuven Rachamin – <i>Modeling of ESFR core with Serpent and DYN3d codes</i></li><li>3. Janne Wallenius – <i>Simulations of large and small fast reactors with Serpent</i></li></ol>
12:30-14:00	<b>Lunch break</b>
14:00-15:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Raquel Ochoa Valero – <i>Comparison of Serpent and EVOLCODE in a sodium fast reactor loaded with minor actinides</i></li><li>2. Mathieu Hursin – <i>Use of Serpent at PSI for fast and thermal system analysis</i></li><li>3. Andrew Hall – <i>Serpent cross section generation for the RBWR</i></li></ol>
15:30-16:00	<b>Coffee break</b>
16:00-17:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Manuele Aufiero – <i>Modification of the Serpent code to study the fuel isotopic evolution of molten salt reactors with online (continuous) reprocessing</i></li><li>2. Staffan Qvist – <i>Optimized fast reactor core design using ADOPT / Serpent coupled code system</i></li><li>3. Hans Rüdiger Hammer – <i>Utilisation of Serpent at Forschungszentrum Jülich</i></li></ol>

## Thursday 20 September 2012

09:30-10:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Eduard Hoogenboom – <i>Experience with the parallel execution of Serpent 2</i></li><li>2. Hans Rüdiger Hammer – <i>MPI Caveats</i></li></ol>
10:30-11:00	<b>Coffee break</b>
11:00-12:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Ryan Bergmann – <i>Porting Monte Carlo Algorithms to the GPU</i></li><li>2. Ville Valtavirta – <i>Effect of radial temperature discretization on nuclide composition in depletion problems</i></li><li>3. Tuomas Viitanen – <i>Calculating the nuclide inventory of FIR1 research reactor using Serpent</i></li></ol>
12:30-14:00	<b>Lunch break</b>
14:00-15:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Aarno Isotalo – <i>Burnup calculation methods in Serpent 2</i></li><li>2. Dan Kotlyar – <i>Extended Predictor-corrector method for existing Monte Carlo Burnup Codes</i></li><li>3. Miriam Vázquez Antolín – <i>Experience in Neutronic / Thermal-hydraulic coupling in Ciemat</i></li></ol>
15:30-16:00	<b>Coffee break</b>
16:00-17:30	<b>Technical session</b> <ol style="list-style-type: none"><li>1. Tuomas Viitanen – <i>Recent advances in the development of the explicit temperature treatment method of Serpent 2</i></li><li>2. Ville Valtavirta – <i>Implementing a temperature solver routine for Serpent 2</i></li><li>3. Jaakko Leppänen – <i>Modeling of continuously-varying density distributions in Serpent 2</i></li></ol>

## Friday 20 September 2012

09:30-10:30	<b>Technical session</b>  1. Jaakko Leppänen – <i>Serpent 2 beta testing and hot topics for future development</i>  • <i>New features in Serpent 2 (Demo)</i>
10:30-11:00	<b>Coffee break</b>
11:00-12:30	<b>General discussion</b>  • <i>Questions and comments to developers</i> • <i>Suggestions and ideas for future work</i> • <i>Educational use of Serpent</i> • <i>Testing the multi-physics interface</i> • <i>International collaboration, student exchange, etc.</i> • <i>etc...</i>
12:30-14:00	<b>Lunch break</b>