

Monday, August 29, 2022

13:00 – 16:00	Kraken workshop
16:30 - 18:00	Welcome session <ol style="list-style-type: none">1. Greetings from Technical University of Munich2. Jaakko Leppänen (VTT) -- Greetings from the Serpent developer team

Tuesday, August 30, 2022

10:00 - 10:30	Coffee break
10:30 - 12:00	Technical session <ol style="list-style-type: none">1. Jaakko Leppänen (VTT) – New base version, export control and distribution2. Joshua Hykes (SSP) – Serpent-SSP: VTT and Studsvik collaboration3. Ville Valtavirta (VTT) – Using Serpent with the nodal neutronics code Ants, Part I
12:00 - 13:00	Lunch
13:00 - 14:30	Technical session <ol style="list-style-type: none">1. Petri Forslund (SSP) – CASMO5/SIMULATE5 vs. Serpent2 3D 2x2 Mini-Core CBH Benchmark Problem2. Jaakko Leppänen (VTT) – On the performance of the particle tracking routine in Serpent 23. Yves Robert (Berkeley) – Hyper-fidelity depletion coupled with discrete pebble motion in pebble bed reactors
14:30 - 15:00	Coffee break
15:00 - 17:00	Technical session <ol style="list-style-type: none">1. Yves Robert (Berkeley) – New features for pebble bed reactors simulations with Cerberus/Serpent2. Ana Jambrina (VTT) – New features in burnup framework in Serpent3. Emil Fridman (HZDR) – Modeling of mechanical deformations and associated reactivity effects in SFR cores
19:00	Social dinner

Wednesday, August 31, 2022

9:00 – 10:00	Technical session <ol style="list-style-type: none">1. Kaspar Klenø (Seaborg) – Using Serpent to design the CMSR in Seabor2. Ville Valtavirta (VTT) – Using Serpent with the nodal neutronics code Ants, Part II
10:00 - 10:30	Coffee break
10:30 - 12:00	Technical session <ol style="list-style-type: none">1. Topias Kähkönen (VTT) – Variance reduction for collimated gamma detector geometry in Serpent2. Ana Jambrina (VTT) – Functional expansion tallies in Serpent3. Christian Reiter (TUM) – Serpent as main tool for conversion of FRM II
12:00 - 13:00	Lunch
13:00 - 16:30	Group photo and reactor tour
16:30 - 17:00	Coffee break
17:00 - 18:00	Technical session <ol style="list-style-type: none">1. Jaakko Leppänen (VTT) – Short demonstration of FreeCAD and Blender

Thursday, September 1, 2022

9:00 - 10:00	Technical session <ol style="list-style-type: none">1. Jaakko Leppänen (VTT) – Use of Serpent-Kraken in VTT’s LDR-50 district heating reactor project2. TBD
10:00 - 10:30	Coffee break
10:30 - 12:00	Technical session <ol style="list-style-type: none">1. Vaibhav Mishra (Uppsala) – TITLE?2. Daniel Bonete Wiese (TUM) – TITLE?3. Christoph Hauf (TUM) – Shielding calculations
12:00 - 13:00	Lunch
13:00 - 14:30	Technical session <ol style="list-style-type: none">1. Kaltrina Shehu (TUM) – Serpent 2/CFX Coupling2. Lauri vaara (VTT) – Total Monte-Carlo method with Serpent.3. Paul Cosgrove – Preliminary implementation of random ray method in the SCONE Monte Carlo code
14:30 - 15:00	Coffee break / Farewell

NOTES:

- All times are in CET!!!
- The social dinner on Tuesday is at own expense
- Bring your passport for the reactor tour
- All presentations are collected at a website after the meeting. Send your presentation slides in pdf format to serpent@vtt.fi. If you don't wish to share your slides, let us know.