

ECINT School Agenda

* CEST time

28 June / Monday

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| 10:00 – 11:00 | School opening |
| 11:00 – 12:00 | Gen IV Reactor Design Concepts
<i>Dr. Konstantin Mikityuk, Paul Scherrer Institute</i> |
| 12:00 – 13:00 | Lunch break |
| 13:00 – 14:30 | Applications of Monte Carlo neutron transport calculation to space-dependent kinetics
<i>Dr. Hiroki Takezawa, Tokyo Institute of Technology</i> |
| 14:30 – 15:00 | Break |
| 15:00 – 16:30 | Current status of electricity generation and nuclear power in the world
<i>Dr. Igor Pioro, University of Ontario Institute of Technology</i> |

29 June / Tuesday

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| 10:00 – 11:30 | Advanced reactors
<i>Chirayu Batra, International Atomic Energy Agency (IAEA)</i> |
| 11:30 – 13:00 | Lunch break |
| 13:00 – 14:30 | Aspects of steady-state coupled Monte Carlo simulations
<i>Dr. Jan Dufek, KTH Royal Institute of Technology</i> |
| 14:30 – 15:00 | Break |
| 15:00 – 16:30 | High-to-Low Model Information and Uncertainty Propagation in Nuclear Reactor Design and Safety Modeling and Simulation
<i>Dr. Kostadin Ivanov, North Carolina State University</i> |

30 June / Wednesday

- 10:00 – 11:30 Deterministic modelling of nuclear systems multi-physics – From local balance equations to macroscopic models in neutronics and thermal-hydraulics
Dr. Christophe Demaziere, Chalmers University of Technology
- 11:30 – 13:00 Lunch break
- 13:00 – 14:30 Multi-physics core simulations: From coarse mesh to high resolution modelling
Dr. Yann Perin, GRS
- 14:30 – 15:00 Break
- 15:00 – 16:30 Reactor modeling methods as data analysis tools
Dr. Manuele Aufiero, Milano Multiphysics

01 July / Thursday

- 10:00 – 11:30 Basics of fluid dynamics
Dr. Viktoria Popsueva, Western Norway University of Applied Sciences
- 11:30 – 13:00 Lunch break
- 13:00 – 14:30 Numerical and computational methods in applied and theoretical hydrodynamics. Navier-Stokes equations
Dr. Viktoria Popsueva, Western Norway University of Applied Sciences
- 14:30 – 15:00 Break
- 15:00 – 16:30 FlowVision. Multipurpose Computational Fluid Dynamic Code for Everyone
Natalia Alexandrova, Engineering company TESIS Ltd

02 July / Friday

10:00 – 11:30	FlowVision. First steps <i>Natalia Alexandrova, Engineering company TESIS Ltd</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Work with FlowVision <i>Daniil Trofimov, Engineering company TESIS Ltd</i>
14:30 – 15:00	Break
15:00 – 16:30	Work with FlowVision <i>Natalia Alexandrova / Daniil Trofimov, Engineering company TESIS Ltd</i>

05 July / Monday

10:00 – 11:30	Monte Carlo modeling. MCU Introduction <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Nuclear Data. Monte Carlo Calculations <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>
14:30 – 15:00	Break
15:00 – 16:30	Work with MCU <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>

06 July / Tuesday

10:00 – 11:30	Work with MCU <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Work with MCU <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>

14:30 – 15:00	Break
15:00 – 16:30	Work with MCU <i>Dr. Denis Shkarovsky, NRC "Kurchatov Institute"</i>

07 July / Wednesday

10:00 – 11:30	Introduction to StarCCM+ <i>Dr. Sergey Anpilov, Lomonosov Moscow State University</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Work with StarCCM+ <i>Dr. Sergey Anpilov, Lomonosov Moscow State University</i>
14:30 – 15:00	Break
15:00 – 16:30	Work with StarCCM+ <i>Dr. Sergey Anpilov, Lomonosov Moscow State University</i>

08 July / Thursday

10:00 – 11:30	CFD models for multiphase flows <i>Dr. Boris Balakin, Western Norway University of Applied Sciences</i>
11:30 – 13:00	Lunch break
13:00 – 14:30	Multiphase flows in StarCCM+ <i>Dr. Boris Balakin, Western Norway University of Applied Sciences</i>
14:30 – 15:00	Break
15:00 – 16:30	Work with StarCCM+ <i>Dr. Boris Balakin, Western Norway University of Applied Sciences</i>

09 July / Friday

10:00 – 11:30	School closing
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