

International PhD Workshop Program

1 st Day (Monday, 27 th Oct., 2025) Meeting place: Haus der Kirche, Bad Herrenalb Dobler Str. 51, 76332 Bad Herrenalb		
Morning	Arrival of participants	
12:00 – 13:00	Lunch Buffet	
13:00 – 13:10	Welcome	
Session 1 Session Chair: Prof. Meng Zhao		
13:10 – 14:00	Investigation on Bubble Residence Time of Swarm Flow in Pool Scrubbing Process	Fanli Kong
14:00 – 14:50	Investigation on Particle Residence Time in Pool Scrubbing Conditions	Xing Chen
14:50 – 15:10	Coffee Break	
Session 2 Session Chair: Dr. Fanli Kong		
15:10 – 16:00	Experimental Investigation on Droplet Behaviors in Post-dryout Region	Zihan Xia
16:00 – 16:50	Experimental investigations of the critical heat flux and Post-dryout heat transfer with R-134a under high pressure	Nikolai Rensch
16:50 – 17:40	A Droplet Interfacial Area Transport Equation for Transient Flow Analysis	Lin Chen
18:00 – 19:00	Dinner Buffet	
19:00 – 21:00	Get together activity	

2nd Day (Tuesday, 28th Oct., 2025) Meeting place: Haus der Kirche, Bad Herrenalb Dobler Str. 51, 76332 Bad Herrenalb		
Session 3 Session Chair: Dr. Fabian Wiltshko		
09:00 – 09:50	Validation of a Fine-Grid-CFD-Model for Natural Convection in Water Filled Pools	Jonathan Bauer
09:50 – 10:40	Introduction to Storm and openfoam GUI	Narasimha Krishna Chadalawada
10:40 – 11:00	Pause	
11:00 – 11:50	CFD simulation on Helical Tube	Zihan Xia
12:00 – 13:00	Lunch Buffet	
13:00 – 18:00	Round Table Discussion ‘Advanced simulation and modeling on two phase flow heat transfer’	
18:00 – 19:00	Dinner Buffet	
19:00 – 21:00	Get together activity	

3rd Day (Wednesday, 29th Oct., 2025) Meeting place: Haus der Kirche, Bad Herrenalb Dobler Str. 51, 76332 Bad Herrenalb		
Session 4 Session Chair: Dr. Zihan Xia		
09:00 – 09:50	Results for Double Blind Simulation of Benchmark THAI Test TH-37	Björn Schulze
09:50 – 10:40	Research on the Improvement of a New Semi-Mechanistic Boiling Heat Transfer Model	Rui Qiu
10:40 – 11:00	Pause	
11:00 – 11:50	Investigations on Turbulent Heat Flux in Horizontal Flow Under Supercritical Pressure	Gürel Özesme
12:00 – 13:00	Lunch Buffet	
13:00 – 18:00	Round Table Discussion ‘Nuclear Safety in SMR’	
18:00 – 19:00	Dinner Buffet	
19:00 – 21:00	Get together activity	

4 th Day (Thursday, 30 th Oct., 2025) Meeting place: Haus der Kirche, Bad Herrenalb Dobler Str. 51, 76332 Bad Herrenalb		
Session 5 Session Chair: Nikolai Rensch		
09:00 – 09:50	Bayesian Uncertainty Quantification - Methods and Application to Continual Machine Learning	Fabian Wiltschko
09:50 – 10:40	Development and Assessment of the Data-Informed Continuous Machine Learning Approach Based on CHF Prediction	Zhichao Zhang
10:40 – 11:00	Pause	
11:00 – 12:00	Best Presentation Award & Closing Remarks	
12:00 – 13:00	Lunch Buffet	
Leaving		