Program for the 4th Annual Meeting of the SPP 2364 Kick-off for the 2nd phase

24.-25.11.2025

GenoHotel Karlsruhe
Am Rüppurrer Schloss 40
76199 Karlsruhe

5 minutes oral presentation as a short PowerPoint flash presentation with max. 3 slides on the topic, new results and outlook for the 2nd phase; discussion for each PhD project only at the poster; sequence of individual contributions within the project as desired; presentations can preferably be made by PhDs or PostDocs in English.

Please send each PowerPoint presentation until the 21st of November to spp2364@mvm.kit.edu

Monday, 24.11.2025

12.00-13.00	Check-in and lunch
13.00-13.30	Introduction and short review of the third year
	(Hermann Nirschl)

Particle Handling:

15.00-15.30 Coffee break

Faiticle Hallu	Farticle Hallulling.		
13.30-13.40	Adaptive optimal control of continuous aqueous two- phase flotation (ATPF)		
	(Katrin Baumgärtner, Florian Messerer, Kim Lohfink)		
13.40-13.50	Model-based process control for dynamic and efficient operation of liquid/liquid mixer-settler systems		
	(Chrysoula Bliatsiou, Daniel Topalovic)		
13.50-14.05	Autonomous structure formation processes in spray fluidized bed agglomeration		
	(Jialin Men, Eric Julian Otto, Aisel Ajalova)		
14.10-15.00	Poster discussion		

Particle Synthesis:

15.30-15.45	Autonomous control of a process chain for CO ₂ carbonation by use of mine waste
	(Mohammad Al Kathib, Volker Bächle, Chinmay Hegde)
15.45-15.55	Model-based process control for transferred arc synthesis of nanoparticles
	(Danijel Cuturic, Jonah Weidemann)
15.55-16.05	Synthesis of highly functional nanoparticles via a sol-gel process using X-ray scattering methods: from process development to process control
	(Guohui Yang, Marcel Kevin Jiokeng Dongmo)
16.05-16.15	Model-based control of the dynamics during fine grinding in wet-operated stirred media mills
	(Michel Lahmann, Christoph Thon)
16.15-16.25	ARCO-CRYSTAL: Adaptive robust predictive control of continuous slug flow cooling crystallization
	(Collin Johnson, Maximilian Kattner, Marc Meier)
16.30-17.25	Poster discussion
17.30-19.00	Guest lecture with discussion: Prof. Zoltan Nagy Title: tbd
19.00	Dinner

Tuesday, 25.11.2025

Formulation:

09.00-09.10	Autonomous and self-adapting, high-resolution 3D additive manufacturing by high energy impacts of fine particles	
	(Yannik Sinnwell, Anton Maksakov)	
09.10-09.20	Model-based quality control in continuous manufacturing of pharmaceutical granules (QC4CM) (Stofan Töllo, Stofan Klinkon Lith)	
	(Stefan Tölle, Stefan Klinken-Uth)	
09.20-09.35	Formulation of dispersed systems via (melt) emulsification: Process design, in situ diagnostics and regulation	
	(Thorben Südhoff, Stefan Buchstaller, Leah Ebner)	
09.35-09.45	Model-based control of spray synthesis of structured granules with specified properties, using transfer functions derived by multivariate stochastic models and machine learning (Rahul Mitra, Lukas Fuchs)	
09.50-10.45	Poster discussion	
10.45-11.15	Coffee break	
11.15-11.45	Outlook for the second period	
11.45-13.00	Lunch	
13.00	Departure of the PIs	

Program for the 4th Ph.D. Workshop of the SPP 2364 Kick-off for the 2nd phase

25.-26.11.2025

GenoHotel Karlsruhe
Am Rüppurrer Schloss 40
76199 Karlsruhe

Tuesday, 25.11.2025

Ph.D. Workshop: How I did it!

13.00-14.30 Dr. Claas Klasen (former Evonik industries)

14.30-15.00 Coffee break

15.00-16.30 Dr. Zoltan Nagy (University of Purdue)

16.30-18.00 Discussion, open topics

18.00 Dinner

Wednesday, 26.11.2025

Trip to BASF, Ludwigshafen

07.00 Departure at the GenoHotel

Program see attached

17.00 Arrivial at rail station Karlsruhe



Time Location Agenda

Wednesday 26th November 2025

09:00	Gesellschaftshaus Courtyard / Entrance area	Welcome by BASF representatives - Automation Technology - Solids Formulation and Handling
09:05 ~ 30 min	Gesellschaftshaus Juliuszimmer II (1st floor to the left)	Talk by <u>Hermann Nirschl</u> SPP Priority Program overview + short Q&A
09:35 - 10:15 ~ 40 min	n	Talk BASF Automation Central topic in BASF process automatisation
10:15 - 11:30	Juliuszimmer II + III	Poster session (Particle Synthesis)
11:35 - 12:05	Juliuszimmer II + III	Poster session (Particle Handling, Formulation)
12:05 - 12:45	Juliuszimmer II	Carreer @ BASF + Q&A session Sabrina Turba (RG/H)
12:45 - 13:00	n	Closing remarks & perspectives
13:00 - 14:00	Festsaal (2nd floor)	"Create your Bowl" - Buffet
Bus tour BASF Ludwigshafen Duration:		

☆ End @ Parking lot Gesellschaftshaus der BASF



15:00 End of event