Program of the IMPD4Cat (FOR5538) workshop (09.02.-11.02.2026, LIKAT, Rostock)

Leibniz-Institute for Catalysis, Albert-Einstein-Str. 29a, 18059 Rostock, Seminar room HS1 3rd floor (R. 1.311)

Monday 09.02.2026

Status presentations of subprojects

12:00	**Lunch (at LIKAT)**
13:00	**Opening**
	Prof. Dr. Kai Sundmacher
	Presentations of sub-projects (each 15+10 min)
13:15	**SP6**: "*A Bayesian Optimisation Framework for Reaction and Process Design*"
	Christoph Griehl, MSc.
13:40	**SP7**: "*Self-learning Control of Catalytic Conversion of Olefins to α-Amino Acids and β–Amino Alcohols – A flexible Approach for Modelling and Control*"
	Jessica Behrens, MSc.
14:05	**SP1**: "*Machine learning aided cross acyloin reaction*"
	Fairoosa Poovan, MSc; Dr. Helfried Neumann
14:35	**SP2**: "*Optimization of earth-abundant metal-catalyzed alcohol oxidation reactions*"
	Isabell Prediger, MSc.
15:00	**Coffee**
15:20	**SP3a** & **SP3b**: "*Selection, design and application of novel biocatalytic reactive crystallization concepts for the preparation of chiral α-amino acids and β-amino alcohols*"
	Richard Gerstmann, MSc.; Axel Schultheis, MSc.
16:10	**SP4**: "*Selection, Design and Application of Membrane Processes for the Separation of Reaction Mixtures*"
	Henrik Schröter, MSc.
16:35	**Coffee**
17:00	**SP5a1**: "*In-situ spectroscopic analysis of hydroformylation-cross acyloin condensation reaction*"
	Chunhong Wei, MSc.
17:25	**SP5a2**: "*A frequency channel scanning approach for the Peak Group Analysis*"
	Lukas Prestin, MSc.
17:50	**SP5b**: "*On-site monitoring system using analytical HPLC*"
	Somayeh Zarei, MSc.
18:15	**Closing**
18:30	**Dinner (at LIKAT)**
19:30	**After-dinner talk: Research Data Management (RDM) in FOR 5538 - Status and next steps**
	Tapashi Gosswami, MSc.
20:30	**Board game evening**

Tuesday 10.02.2026

Workshop with Guest Speakers (open to interested colleagues from Univ. Rostock and LIKAT)

8:45	**Opening / Introduction to Research Unit IMPD4Cat (Prof. Dr. Kai Sundmacher)**
9:15	**Prof. Dr. Robert Franke (Evonik Oxeno, Ruhr-Universität Bochum)** Title: "*Creative Tensions: Bridging Academic and Industrial Research*"
10:30	**Coffee**
10:50	**Dr. Johannes Panten (Symrise)** Title: "*Selected processes for aroma chemicals involving multiple steps*"
12:05	**Lunch (at LIKAT)**
13:15	**Dr. Gerhard Mestl (Clariant)** Title: "*„Vision without Execution is Hallucination“ (T.A. Edison): Effective Strategies for Scale-Up of Heterogenous Catalysts with one Successful Showcase, the development of Oxymax E for Lindes EDHOX-process*"
14:30	**Coffee**
14:50	**Dr. Clemes Minnich (S-Pact)** Title: "*Spectroscopic PAT: Boosting chemical process development*"
16:05	**Tours Labs / Technikum**
17:30	**Closing**
18:30	**Dinner (at LIKAT)**

Wednesday 11.02.2026

Workshop / PhD meeting

9:00	**Beginning of program**
9:00-10:00	Career path talks by **Prof. Dr. Jan von Langermann** and **Prof. Dr. Andreas Seidel-Morgenstern**
10:00-12:00	Coffee break and PhD discussion
12:00-13:30	Lunch break and PhD discussion
Ca. 14:00	**Closing**