

Japanese-German Symposium on Sustainable Catalysis

November 27-28, 2025

Location *Otto-Bayer Lecture Hall (1. floor ITMC; Worringer Weg 2, 52074 Aachen)*

Date *November 27, 2025*

12.00 p.m.	<i>Welcoming and Light Lunch</i>
1.00 p.m.	<i>Opening</i> Prof. Dr. Takashi Hayashi (<i>Osaka University</i>)
1.15 p.m.	Dr. Mitsushi Suzuno (<i>Japanese Embassy</i>)
1.25 p.m.	Prof. Dr. Masahiko Hayashi (<i>JSPS Office Bonn</i>)
1.35 p.m.	<i>IRTG CIRCULATE - Structure and Plan</i> Prof. Dr. Sonja Herres-Pawlis (<i>IAC, RWTH Aachen University</i>)
1.45 p.m.	<i>"Control of Cell Function by Cell Scaffolds in Tissue Engineering"</i> Prof. Dr. Michiya Matsuzaki (<i>Osaka University</i>)
2.10 p.m.	<i>"Investigating the Efficiency of Protein Secretion in Corynebacterium Glutamicum using High-throughput Methods "</i> Prof. Dr. Marco Oldiges (<i>ABBt, RWTH Aachen University</i>)
2.35 p.m.	<i>"New Reactions Mediated by Atomic Carbon Equivalents"</i> Prof. Dr. Mamoru Tobisu (<i>Osaka University</i>)
3.00 p.m.	<i>"Functional Polysaccharide Microgels for Design of Biomaterials"</i> Prof. Dr. Andrij Pich (<i>ITMC, RWTH Aachen University</i>)
3.25 p.m.	<i>Coffee Break</i>
4.00 p.m.	<i>"Design and Implementation of Metabolic Pathways Outside of Cells"</i> Prof. Dr. Kohsuke Honda (<i>Osaka University</i>)
4.25 p.m.	<i>"Development of Cross Dehydrogenative Coupling Reactions"</i> Prof. Dr. Frederic Patureau (<i>IOC, RWTH Aachen University</i>)
4.50 p.m.	<i>"Catalysis by Pentanuclear Metal Complexes: A "High-Five" Molecular Platform"</i> Prof. Dr. Shigeyuki Masaoka (<i>Osaka University</i>)
5.15 p.m.	<i>"Insights from Modeling Small Molecules"</i> Prof. Dr. Maria Fyta (<i>ABBt, RWTH Aachen University</i>)
5.40 p.m.	<i>"Development of Polysaccharide-Based Biopolymer Composites Exhibiting Enhanced Mechanical and Functional Properties for Biomedical Applications"</i> Prof. Dr. Yu-I Hsu (<i>Osaka University</i>)
6.05 p.m.	<i>Group Photo and Transfer to City Center</i>
7.00 p.m.	<i>Dinner at "Postwagen zum Ratskeller"</i> <i>Markt 40, 62062 Aachen</i>

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8.30 a.m.	Coffee and Get-together
9.00 a.m.	"Tuning Multi-enzyme Catalysed Processes – Modular set-up, Intensification and Integration with Microbial and Chemical Transformations" Prof. Dr. Dörte Rother (<i>IBG FZ Jülich / RWTH Aachen University</i>)
9.40 a.m.	"To be announced" Prof. Dr. Wataru Mizukami (<i>Osaka University</i>)
10.05 a.m.	"Condensed-phase Simulation of Polymerization Reactions Using ML Potentials" Prof. Dr. Christoph Bannwarth (<i>IPC, RWTH Aachen University</i>)
10.30 a.m.	Coffee Break
11.00 a.m.	"Biohybrid Catalyst Engineering" Prof. Dr. Ulrich Schwaneberg (<i>ABBt, RWTH Aachen University</i>)
11.25 a.m.	"Bioinspired Cardiovascular Implants: Protein Engineering Meets Textile Technologies" Dr. Alicia Fernández Colino (<i>AME, RWTH Aachen University</i>)
11.50 a.m.	Poster Flash Talks
12.30 p.m.	Poster Session with Lunch
2.00 p.m.	"Fermentative Production of Phenol from Renewable Resources" Prof. Dr. Jørgen Magnus (<i>AVT, RWTH Aachen University</i>)
2.25 p.m.	"Heme-dependent Artificial Metalloenzymes Responsible for Abiotic Reactions" Prof. Dr. Takashi Hayashi (<i>Osaka University</i>)
2.50 p.m.	"Circular Economy of Bioplastics - Too Valuable to Be Used Only Once" Prof. Dr. Sonja Herres-Pawlis (<i>IAC, RWTH Aachen University</i>)
3.15 p.m.	Final Remarks
3.30 p.m.	End of Symposium