

# Forschung der Chemischen Industrie

## Invited Speakers



Prof. Dr. Matthias Bremer  
Merck KGaA

**Present Position:** Director, Display Materials, R&D Development

**Research Interests:** Liquid Crystals, Organic Synthesis, Computational Chemistry



Dr. Roland Götz  
BASF SE

**Present Position:** Executive Expert at BASF

**Research Interests:** Global R&D Crop Protection – Process Development for Active Ingredients



Dr. Hans-Christian Militzer  
Bayer Pharma AG

**Present Position:** Principle Scientist; Process Research & Development

**Research Interests:** Process Development, Solid State Chemistry



Dr. Thorsten Oost  
Boehringer Ingelheim

**Present Position:** Senior Principal Scientist in Medicinal Chemistry

**Research Interests:** Drug Discovery, Lead Identification & Optimization, New Chemical Entities ("Small molecules", peptides, nucleotides)



Dr. Carsten Herweg  
Robert Bosch GmbH

**Present Position:** Director Chemical Processes and Technology (CR/ARC), Corporate Research and Advanced Engineering Bosch

**Research Interests:** Electrochemical Energy Storage and Conversion, Chemical and Biological Sensors, LifeScience



Dr. Torsten Kulke  
Symrise

**Present Position:** Senior Vice President Global Innovation, Sustainability & Regulatory - Scent & Care

**Research Interests:** Technologies touching consumers' lives. Sustainability, Backward Integration, Health & Performance



# Forschung der Chemischen Industrie

Industry Research - Introduced to You.

Thursday  
May 4th 2017

Lecture Hall Building, Chemistry Institutes  
of the WWU Münster



Partners of the Event

1:00 pm **Dr. Hans-Christian Militzer** Bayer Pharma AG  
Chemical Process Development at Bayer Pharmaceuticals

**Dr. Carsten Herweg** Robert Bosch GmbH  
Chemistry at Bosch - Enabling the Electrified Powertrain

**Prof. Dr. Matthias Bremer** Merck KGaA  
Fluorinated Indanes with a Tetrahydropyranyl-Ring:  
Synthesis and Computations

PhD Poster Talks WWU Münster  
Selected contributions on current research projects

3:30 pm **Postersession**  
Coffee break, discussion, snacks

4:30 pm **Dr. Thorsten Oost** Boehringer Ingelheim  
Discovery of Clinical Candidates  
for the Treatment of Obesity and Diabetes

**Dr. Roland Götz** BASF SE  
Crop Protection Research & Process Development

**Dr. Torsten Kulke** Symrise  
Combining Science & Sustainability:  
Fragrance Raw Materials  
from Plant Side Streams

Reception  
Sektempfang

symrise

MERCK

**BOSCH**  
Invented for life



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# FoChIn 2017 · Poster Contributions from Research Groups at the WWU Münster

Dielmann · Eckert · Erker · Esselen · Fernandez · Gilmour · Glorius · Hahn · Hansen · Haufe · Heuer · Humpf · Jose · Karst · Klemptner · Leker · Mootz · J. Müller · Neugebauer · Nowak · Ravoo · Rentmeister · Schönhoff · Studer · Uhl · Wiemhöfer · Winter · Wünsch

01	Anhäuser, Lea	Manipulation of the mRNA 5'-cap at the N7 position as valuable platform for RNA labeling and tuning translational efficiency
02	Baumeister, Sören	Novel GluN2B containing NMDA receptor antagonists with thiophenyl[7]annulene-amine scaffold
03	Bergkemper, Melanie	Synthesis and biological evaluation of spirocyclic sigma-2 receptor ligands as PET tracers
04	Betz, Johannes	Nickel-Rich Layered Oxide Cathodes: Towards High Specific Energies for Lithium Ion Batteries
05	Börgel, Frederik	Enantiomerically pure GluN2B antagonists: Synthesis, biological evaluation and pharmacokinetics
06	Brinkkötter, Marc	Influence of the structure of anions and poly(ionic liquid)s on polymer gel electrolytes
07	Buchheit, Annika	Batteries meet Optics: Thin Film Batteries as Optical Actuators for Si-Waveguides in the Near IR-Region
08	Candish, Lisa	Visible Light-Promoted Decarboxylative Functionalization of Aromatic Carboxylic Acids
09	Diddens, Diddo	Impact of Momentum Conservation on the Transport Properties of Ionic Liquids in and out of Equilibrium
10	Eilers-Rethwisch, Matthias	Tin doped Ni-rich NMC cathode materials: An insight into structural impacts and cycle life
11	Fingerhut, Stefanie	Gadolinium in human brain – Spatially resolved quantification of Gadolinium by means of laser ablation-inductively coupled plasma-mass spectrometry
12	Friedel, Kristina	Circumventing conventional strategies of the intein-catalyzed N-S-acyl-shift
13	Grünebaum, Mariano	Trifluoroalkyl substituted N-heterocyclic lithium salts: An investigative study of property-structure relationships
14	Hebenbrock, Marian	Influence of the ancillary ligand on the luminescence of platinum(II) complexes with a triazol-based tridentate ligand
15	Hensel, Susanne	Studies of Charge Transfer through DNA with a Metal-Mediated Base Pair
16	Herkert, Lorena	Unraveling the Pathway Complexity of a Supramolecular Polymer Derived from an Amphiphilic Pt(II) Complex
17	Jagels, Annika	<i>Stachybotrys</i> Species in Indoor Environment and Related Health Risks
18	Jash, Biswarup	Potential Application of Metal-Mediated Base Pairing for the Detection of SNP-Related Diseases
19	Kischkewitz, Marvin	Radical-Polar Crossover Reactions of Vinylboron Ate Complexes – Radical Induced 1,2-Alkyl and Aryl-Shift to sp <sup>2</sup> Centers
20	Klahr, Kevin	Benchmarking Structures and Vibrational Frequencies from Subsystem DFT
21	Kolek, Martin	Insights into Lithium Polysulfide Behavior in Different Solvents for Lithium-Sulfur Batteries
22	Kost, Lisa Julia	Novel FRET sensor provides insights into SUMO chain dynamics
23	Kozel, Volodymyr	C <sub>3</sub> -Symmetric Tricyclo[2.2.1.0 <sup>2,6</sup> ]heptane-3,5,7-triol
24	Kröger, Sabrina	Mass spectrometry imaging of human brain tumors after fluorescence-guided resection

25	Lerchen, Andreas	Internal Oxidizing Directing Groups: A Toolkit in C-H Activation for the Efficient Construction of Valuable Target Molecules
26	Martinewski, Katja	The Fascinating Reactivity of an Active Al-N Based Lewis Pair
27	Mäsing, Florian	Light Mediated Preparation of Palladium Nanoparticles as Catalysts for Alkyne <i>cis</i> -Semihydrogenation
28	Massolle, Anja	New Strategies for Modeling Molecular Magnetic Properties
29	Meier, Martin	Transmetalation Reactions of NR,O-NHC Ligands
30	Metternich, Jan Benedikt	Photocatalytic E→Z Isomerization Inspired by the Visual Cycle: Mechanistic Dichotomy and Origin of Selectivity
31	Müller, Lena	Influence of phenylpropenes on Nrf2-related phase II enzyme gene expression <i>in vitro</i>
32	Nienberg, Christian	Identification of a potent allosteric inhibitor of human protein kinase CK2 by bacterial surface display library screening
33	Pöppelmann, Tobias	The effect of (-)-Epigallocatechin-3-gallate (EGCG) on the post-translational protein modification of histone deacetylases
34	Roedle, Alex	Self Assembly of Functionalized BODIPY Dyes
35	Saenger, Thorsten	Microscale thermophoresis for measuring the interaction of the pro-inflammatory human alphaS1-casein and its cellular receptor TLR4
36	Schibilla, Frauke	High affinity nanodiamond-cyclodextrin interactions in the self-assembly of nanomaterials
37	Schlepphorst, Christoph	Ruthenium-NHC catalyzed $\alpha$ -alkylation of methylene ketones
38	Siedow, Melanie	Frustration and Cooperativity in Frustrated Lewis Pairs
39	Stoffels, Marius	Digitization in Conservative Industries – Evidence from the German Water Industry
40	Stricker, Lucas	Functional Light-Responsive Supramolecular Systems based on Arylazopyrazoles
41	Taupitz, Kim Florian	Freezing transient protein interactions with light
42	Thiehoff, Christian	Catalytic Vicinal Difluorination of Olefins
43	Thum, Simone	Synthesis of fluorinated GluN2B antagonists for the Positron Emission Tomography
44	Trentmann, Amke	Small molecule inhibition of oncogenic transcription factors
45	Türkyilmaz, Fatma	TEMPO Radical Mediated Addition to Alkenylboranes
46	Vortmann, Britta	Short-Circuit Determination by Spatially Resolved Analysis of the Quantitative Lithium Distribution on Cycled Lithium Ion Battery Electrodes via LA-ICP-OES
47	Witteler, Tim	Gold(I) complexes with bulky, electron-rich imidazolin-2-ylidenaminophosphines