

# Conference Program

Tuesday - October 17, 2017

9:45 **Registration**  
10:00 **Welcome: Prof. Joachim Ankerhold, Vice President Ulm University**

## Opening session

10:10 **Session chair: Daniela Englisch**  
**Isabell Mering**  
Head of Section Transnational Education Projects in the Middle East, Africa, Latin America, German Academic Exchange Service (DAAD)  
10:30 **Prof. Dr. Alexei R. Khokhlov**  
Vice-Rector of Lomonosov Moscow State University  
10:50 **Prof. Dr. Zongxun Hong**  
Dean of School of Biological Science and Medical Engineering, Southeast University  
11:10 **Daniela Englisch**  
Director of International Office Ulm University

11:30 **Coffee break**

## Session 1: Materials for Catalysis and Electrochemistry

**Session chairs: Prof. Dr. Timo Jacob, Prof. Dr. Carsten Streb**

12:00 **New materials for electrochemical applications obtained using supercritical carbon dioxide**  
Prof. Dr. Marat O. Gallyamov, Lomonosov Moscow State University

12:20 **Nanoengineering Silicon Nanocomposite for High Energy Density Lithium-Ion Battery Application**  
Prof. Dr. Lijie Ci, Shandong University

12:40 **Discussion**

13:00 **Lunch break**

14:30 **Photo(electro)catalysis: Coupling of light absorbers with catalysts for enhanced activity, stability, and selectivity**  
Prof. Dr. Radim Beranek, Ulm University

14:50 **Controllable route of fabricating nanoporous nickel and its electrochemical catalytic behavior**  
Prof. Dr. Pengchao Si, Shandong University

15:10 **Molecular materials chemistry: embedding of molecular metal oxides into functional substrates: from ionic liquids to conductive polymers and nanostructured carbon**  
Prof. Dr. Carsten Streb, Ulm University

15:30 **Discussion**

16:00 **Coffee break**

16:30 **Inhomogeneous Permittivity in Polyelectrolytes and its Influence on Coil-to-Globule Transition and Microphase Separation**  
Dr. Alexander Chertovich, Lomonosov Moscow State University

16:50 **Measuring an electrocatalyst's vital signs: the need for in operando studies**  
Prof. Dr. Timo Jacob, Ulm University

17:10 **Discussion**

17:30 **Networking dinner**

## Wednesday - October 18, 2017

### Session 2: Advances in Biosensing & Bioanalytics

Session chairs: Prof. Dr. Ulrich Herr, Prof. Dr. Kay Gottschalk

10:00	<b>Real-time bioimaging through multifunctional nanoprobe</b> Prof. Dr. Xuemei Wang, Southeast University
10:20	<b>Amperometric microbiosensors as probes in scanning probe microscopy</b> PD Dr. Christine Kranz, Ulm University
10:40	<b>Molecularly Imprinted Polymers Electrochemical sensors: Form Macro to Micro Molecules detection</b> Prof. Dr. Rasha Mohamed El Nashar, Cairo University
11:00	<b>Discussion</b>
11:30	<b>Coffee break</b>
12:00	<b>Direct laser written asymmetric nanoprobe for plasmonic nanofocusing + Photonic crystal assisted SERS analysis</b> Prof. Dr. Xiangwei Zhao, Southeast University
12:20	<b>Manipulation, detection and characterization of single magnetic nanoparticles</b> Prof. Dr. Ulrich Herr, Ulm University
12:40	<b>Discussion</b>
13:00	<b>Lunch break</b>
14:30	<b>Advanced electrochemical biosensors based on nano-scaled electro- and biocatalysts</b> Prof. Dr. Arkady A. Karyakin, Lomonosow Moscow State University
14:50	<b>Mid-Infrared Photonics: Towards IR-on-a-Chip</b> Prof. Dr. Boris Mizaikoff, Ulm University
15:10	<b>Discussion</b>
15:30	<b>Coffee break</b>
16:00	<b>Diamond: Material properties and related sensing applications</b> Dr. Alberto Pasquarelli, Ulm University
16:20	<b>Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution</b> Dr. Rongji Liu, Ulm University
16:40	<b>Discussion</b>
17:00	<b>Networking dinner</b>
18:00	<b>Keynote: Prof. Jörg Wrachtrup, Stuttgart University</b>

## Thursday - October 19, 2017

### PhD Workshop

9:00 Flash presentations á 5 min

11:30 **Coffee break/Poster session**

### U5 Co-operation Discussion

12:00 **Discussion groups**

13:00 **Lunch**

### Cultural Program

14:00 **Excursion Charlotte's Cave**

17:00 **Networking Dinner**

ca 18:00 **End of the conference**