

# Conference Program

## „Nanomaterials for Life Sciences, Batteries and Catalysis“

17<sup>th</sup>-19<sup>th</sup> October 2017, Ulm University

Venue: Villa Eberhardt, Heidenheimerstrasse 80, Ulm

Program Coordinators:

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### Monday - October 16, 2017

During the day	<b>Participants's Arrival</b> Accommodation for Professors at Riku Hotel (Apothekergasse 3, 89073 Ulm) Accommodation for PhD Students at Astra Hotel (Steinhövelstraße 6, 89075 Ulm)
18:50	Pick-up at Hotel Riku (Lobby) by Daniela Englisch, Director International Office
19:00	<b>Dinner for Professors with Prof. Dr. Irene Bouw, Vice-President for Teaching and International Affairs, Ulm University</b> (at Restaurant Barfüßer, Neue Strasse 87, 89073 Ulm)
18:50	Pick-up at Hotel Astra (Lobby) by Elena v. Klitzing, Program Coordinator
19:00	<b>Dinner for PhD Students</b>

### Tuesday - October 17, 2017

09:15	Pick-up at Hotel Riku – Transfer to Villa Eberhardt by Shuttlebus
09:45	<b>Registration</b>
10:00	<b>Welcome: Prof. Dr. Joachim Ankerhold, Vice President, Ulm University</b>

### Opening session

	<b>Session chair: Daniela Englisch</b> <b>Welcome: Daniela Englisch</b> <b>Photo session</b>
10:20	<b>Isabell Mering</b> Head of Section Transnational Education Projects in the Middle East, Africa, Latin America, German Academic Exchange Service (DAAD)
10:40	<b>Prof. Dr. Alexei R. Khokhlov</b> Vice-Rector of Lomonosov Moscow State University
11:00	<b>Prof. Dr. Zongxun Hong</b> Dean of School of Biological Science and Medical Engineering, Southeast University
11:20	<b>Daniela Englisch</b> 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	<b>New materials for electrochemical applications obtained using supercritical carbon dioxide</b> Prof. Dr. Marat O. Gallyamov, Lomonosov Moscow State University
12:20	<b>Nanoengineering Silicon Nanocomposite for High Energy Density Lithium-Ion Battery Application</b> Prof. Dr. Lijie Ci, Shandong University
12:40	<b>Discussion</b>

13:00	<b>Lunch break</b>
14:30	<b>Photo(electro)catalysis: Coupling of light absorbers with catalysts for enhanced activity, stability, and selectivity</b> Prof. Dr. Radim Beranek, Ulm University
14:50	<b>Controllable route of fabricating nanoporous nickel and its electrochemical catalytic behavior</b> Prof. Dr. Pengchao Si, Shandong University
15:10	<b>Molecular materials chemistry: embedding of molecular metal oxides into functional substrates: from ionic liquids to conductive polymers and nanostructured carbon</b> Prof. Dr. Carsten Streb, Ulm University
15:30	<b>Discussion</b>
16:00	<b>Coffee break</b>
16:30	<b>Inhomogeneous Permittivity in Polyelectrolytes and its Influence on Coil-to-Globule Transition and Microphase Separation</b> Dr. Alexander Chertovich, Lomonosow Moscow State University
16:50	<b>Measuring an electrocatalyst's vital signs: the need for in operando studies</b> Prof. Dr. Timo Jacob, Ulm University
17:10	<b>Discussion</b>
17:30	<b>Networking dinner</b>
18:30	Pick-up at Villa Eberhardt – Transfer to Hotel RiKu by Shuttlebus

<b>Wednesday - October 18, 2017</b>	
09:30	Pick-up at Hotel Riku – Transfer to Villa Eberhardt by Shuttlebus
<b>Session 2: Advances in Biosensing &amp; Bioanalytics</b>	
<b>Session chairs: Prof. Dr. Ulrich Herr, Prof. Dr. Kay Gottschalk</b>	
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: From 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>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. Joerg Wrachtrup, Stuttgart University</b>
18:45	Pick-up at Villa Eberhardt – Transfer to Hotel RiKu by Shuttlebus

#### Thursday - October 19, 2017

<b>08:45</b>	Pick-up at Hotel RiKu – Transfer to Villa Eberhardt by Shuttlebus
<b>PhD Workshop</b>	
9:00	Flash presentations á 5 min
<b>11:30</b>	<b>Coffee break/Poster session</b>
<b>U5 Co-operation Discussion</b>	
12:00	<b>Discussion groups</b>
<b>13:00</b>	<b>Lunch</b>
<b>Cultural Program</b>	
14:00	<b>Excursion Charlotte's Cave</b> (Lonetalstraße 61, 89537 Giengen an der Brenz)
17:00	<b>Networking Dinner</b> (at Restaurant Lochmühle, Gerbergasse 6, 89073 Ulm)
ca 18:00	<b>End of the conference</b>

#### Friday - October 20, 2017

During the day	<b>Participants's Individual Departure</b>
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