

Joint Workshop of  
Leibniz-Institut für Katalyse (LIKAT) Rostock and  
PhD Program „Catalysis for Sustainable Synthesis (CaSuS)“, University  
Göttingen

16<sup>th</sup> - 18<sup>th</sup> September 2013, LIKAT Rostock

**Monday, 16<sup>th</sup> September 2013**

<b>12:00</b>	<b>Lunch</b>
1:00 pm	<b>Prof. Matthias Beller</b> (Introduction of LIKAT)
1:15 pm	<b>Prof. Franc Meyer</b> (Introduction of CaSuS)
<b>Chair: Zeynep Kanlidere</b>	
1:30 pm	<b>Christoph Kornhaaß</b> (CaSuS) Cationic Ruthenium Catalysts for Alkyne Annulations with Oximes by C-H/N-H Bond Functionalizations
1:50 pm	<b>Cornelia Panse</b> (CaSuS) Applying a Photocleavable Auxiliary in PNA/PNA Mediated Ligation
2:10 pm	<b>Jola Pospech</b> (LIKAT) Regioselective Ruthenium-Catalyzed Carbonylative Direct Arylation of Heteroarenes
2:30 pm	<b>Dr. Yuehui Li</b> (LIKAT) CO <sub>2</sub> and Carbonates for Organic Synthesis
<b>2:50 pm</b>	<b>Postersession and coffee</b>
<b>Chair: Indre Thiel</b>	
4:00 pm	<b>Tobias Stemmler</b> (LIKAT) Catalytic Hydrogenation and Oxidation Reactions Involving Supported Metal-N-Complexes
4:20 pm	<b>Peter Sponholz</b> (LIKAT) Carbon dioxide – a suitable material for hydrogen storage
4:40 pm	<b>Dr. Friedrich Erben</b> (LIKAT) Production of Diesel fuel from Fats and Oils with homogeneous Catalysts by Metathesis of Methyl oleate
5:00 pm	<b>Katharina Vlach</b> (LIKAT) The influence of Cu substitution into LaNiO <sub>3</sub> used as Precursor of Catalysts in Dry Reforming of Methane
<b>5:20 pm</b>	<b>Postersession</b>
<b>6:20 pm</b>	<b>Transfer to the hotel</b>
<b>7:30 pm</b>	<b>Boat tour</b>

## Tuesday, 17<sup>th</sup> September 2013

### Chair: Jacqueline Priebe

- 9:00 am **Dr. Christian Kleeberg** (TU Braunschweig)  
Silylboranes as Synthetic Reagents: From Copper Catalysis to Lewis Base Induced B-Si Activation
- 10:00 am **Dr. Hesham Mena** (LIKAT)  
Selective Catalytic Reduction of NO<sub>x</sub> with C<sub>3</sub>H<sub>6</sub> over Copper Zeolite in Oxidizing Atmosphere
- 10:20 am **Dr. Mykola Polyakov** (LIKAT)  
Carbonation of Oleochemical Epoxides with CO<sub>2</sub>

### 10:40 am Postersession and Coffee

### Chair: Michael Ainooson

- 11:30 am **Dr. Alexander Breder** (CaSuS)  
Selenium-Catalyzed Oxidative Allylic and Vinylic Amination of Unactivated Alkenes
- 11:50 am **Torben Böhnisch** (CaSuS)  
Copper-mediated Bimetallic Asymmetric Catalysis – An exciting journey with an unexpected supramolecular detour
- 12:10 pm **Christian Godemann** (LIKAT)  
Bridged titanocene complexes for the investigation of elemental steps of overall water splitting
- 12:30 pm **Indre Thiel** (LIKAT)  
Two Sides of the (Cobalt-) Medal: Activity vs. Stability

### 12:50 pm Lunch

### Chair: Phani Kumar Nekkanti

- 2:00 pm **Kai Altenburger** (LIKAT)  
Reactions of  $\alpha$ -di-heterosubstituted Alkynes with Group 4 Metallocenes
- 2:20 pm **Hannes Alex** (LIKAT)  
Nanoparticle Catalyzed Selective Aerobic Oxidation of Benzyl Alcohol in Batch and Flow
- 2:40 pm **Hendrik Schröder** (CaSuS)  
Grace under Pressure: Insights into Efficient Catalyst Design by High-Pressure ATRP
- 3:00 pm **Sebastian Primpke** (CaSuS)  
Initialization kinetics of Catalyzed Chain Growth
- 3:20 pm **Postersession and Coffee**

**Chair: Jola Pospech**

- 5:00 pm **Marcel Hoffmann** (LIKAT)  
Catalytic Wittig Reaction
- 5:20 pm **Hendrik Büttner** (LIKAT)  
Bifunctional phosphonium salts as efficient catalysts for the addition of carbon dioxide to epoxides
- 5:40 pm **Tobias Meyer** (LIKAT)  
Hydrogen Evolution on NaTaO<sub>3</sub> Nanoparticles: Influence of the Synthesis Method and Improvements by Additives
- 6:00 pm **Rafael da Silva** (LIKAT)  
Multicomponent 3D Aerogels: Characterization and photocatalytic properties
- 7:00 pm **Barbeque**

**Wednesday, 18<sup>th</sup> September 2013**

**Chair: Hannes Alex**

- 9:00 am **Prof. Martin Bröring** (TU Braunschweig)  
Squeezing Metal Ions by Contracted Porphyrins
- 10:00 am **Dr. Prasanna Rajagopalan** (LIKAT)  
Operando DRIFTS/MS Investigations of Supported Rh/Ni catalysts – A case study of CO<sub>2</sub> Hydrogenation
- 10:20 am **Jacqueline Priebe** (LIKAT)  
Au-TiO<sub>2</sub> for solar H<sub>2</sub> production from water: Obtaining structure-reactivity-relationships by in situ EPR spectroscopy
- 10:40 am **Postersession and Coffee**

**Chair: Marten Seeba**

- 11:10 am **Claudia Engelmann** (LIKAT)  
In situ FT-IR reaction monitoring of laccase-catalyzed C-C- and C-N-coupling reactions
- 11:30 am **Markus Scheibel** (CaSuS)  
Ammonia as fuel? Oxidative Deprotonation of NH<sub>3</sub>
- 11:50 am **Sven Neudeck** (CaSuS)  
Tunable Pyrazolate-Based Diruthenium Complexes as Efficient Water-Oxidation Catalysts
- 12:10 pm **Lunch**
- Around 1:00 pm **Departure**