

Justus-Liebig-Universität Giessen, Institut für Angewandte Physik,  
Heinrich-Buff-Ring 16, D-35392 Giessen

Prof. Dr. Derck Schlettwein

Telefon (0641) 99-33400 / 33401

Telefax (0641) 99-33409

Email: Schlettwein@uni-giessen.de

**Joint Winter School & Workshop for  
Interdisciplinary Research on Materials  
Science of JLU Giessen and Osaka  
University**

**Monday, Dec. 8, 2014**

16:10 **Arrival of International Guests** (NH223)  
transfer to hotel, check-in, informal get-together (traditional Christmas market)

**Tuesday, Dec. 9, 2014**

9:00 - 12:30 *Seminar Room 239 (HBR 16)*

13:30 - 18:00 *Seminar Room B202 (IFZ)*

9:00	<b>Welcome, opening and organizational remarks</b>	D. Schlettwein, JLU Giessen
9:20	<b>Introduction of study programs at School of Engineering Science, Osaka University, "Advanced Materials" and at JLU Giessen and prospective program of a double degree MEng/MSc in Materials Science</b>	H. Tada, Osaka Univ. D. Schlettwein, JLU R. Gaitsch, JLU
10:00	coffee break	
10:30	<b>The „LaMa“ – An interdisciplinary University Center for Materials Research</b>	J. Janek, JLU Giessen
11:00	<b>Nanomaterials by solution-based chemistry</b>	B. Smarsly, JLU Giessen

**STUDENT SHORT TALKS**

11:30	Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen with a Ruthenium Complex and Water Oxidation Catalysts Prepared by Bottom Up and Top Down Methods	Y. Isaka, Osaka University
11:50	Low temperature synthesis of titanate nanocrystals using amorphous titania with high surface area	M. Ohta, Osaka University

12:10	Universal conductance fluctuations in Ge-doped GaN nanowires	J. Binder, JLU Giessen
12:30	lunch (IFZ, CaRé)	
13:30	<b>Watching atoms at work: Microscopic mechanisms of friction</b>	A. Schirmeisen, JLU Giessen
14:00	<b>Electrochemical Materials Science – Solid State Ionics</b>	J. Janek, JLU Giessen
14:30	<b>Physics of Micro- and Nanostructures</b>	M. Elm, JLU Giessen
15:00	coffee break	
<u>STUDENT SHORT TALKS</u>		
15:30	Electric-field Effect on Transition Properties in Strongly Correlated (La,Pr,Ca)MnO <sub>3</sub> Film	T. Nakamura, Osaka University
15:50	High pressure study on superconductor K <sub>x</sub> Fe <sub>2-y</sub> Se <sub>2</sub>	H. Fujita, Osaka University
16:10	Measurement of single molecular at low temperature	T. Shimomise, Osaka University
16:30	<b>Round-table talk</b> about academic and student life in an international context with <b>pizza party</b>	

### Wednesday, Dec. 10, 2014

9:00 - 18:00 *Seminar Room B202 (IFZ)*

9:00	<b>Methylene-bridged Heterocycles and Beyond</b>	R. Göttlich, JLU Giessen
9:30	<b>Carrier Transport in Single Molecules</b>	H. Tada, Osaka University

### STUDENT SHORT TALKS

10:00	Synthesis and Controlled Flapping Motion of Clothespin-Shaped Binuclear Palladium Complexes Bearing Alkyl Amide Linkers	R. Inoue, Osaka University
10:20	Theoretical study of single-molecule conductivity of polyacenes; Effects on open-shell electronic structure	T. Takebayashi, Osaka University
10:40	Electrical characterization of perovskite thin films	J. Tinz, JLU Giessen
11:00	coffee break	

11:30	<b>Reaction dynamics on semiconductor surfaces</b>	M. Dürr, JLU Giessen
12:00	<b>Self-assembly and reactivity of triangular dehydrobenzoannulene derivatives on surface</b>	K. Tahara, Osaka University
12:30	lunch (Otto-Eger-Heim)	
14:00	<b>No Strain - no gain? Synthesis and properties of organic materials</b>	H. Wegner, JLU Giessen
14:30	<b>Organic Semiconductors and Organic-Inorganic Hybrid Materials</b>	D. Schlettwein, JLU Giessen
	<u>STUDENT SHORT TALKS</u>	
15:00	Stochastic resonance in non-linear current-voltage characteristics of self-assembled monolayer	M. Yamaguchi, Osaka University
15:20	Characterization of the Interfaces of Polymeric Phthalocyanines	S. Schneider, JLU Giessen
15:40	Organization of Students in Materials Science	S. Schneider, N. Dannehl, JLU
16:00	coffee break	
16:30	<b>Nanotechnological Materials</b>	M. Eickhoff, JLU Giessen
	<u>STUDENT SHORT TALKS</u>	
17:00	Photoexcited broadband terahertz time domain spectroscopy in InSb	T. Morimoto, Osaka University
17:20	Luminescence properties of Eu,O co-doped GaN	J. Takatsu, Osaka Universtiy
17:40	Preparation and characterization of thin films of NaT <sub>2</sub>	P. Risius, JLU Giessen
18:30	dinner at a restaurant in Giessen (Alt Giessen)	

## Thursday, Dec. 11, 2014

Meeting at Entrance, Goethestraße 58

- 9:00      **Introduction to JLU Giessen by the international office**  
discussion of possibilities for international students
- 10:00      **visit the international meeting place (Lokal International) and the student residence for internationals**
- 12:00                      lunch ("Große Mensa")
- LAB VISITS for students
- 13:00      *Experimental Solid State Physics:*  
AG Klar (M. Elm)  
AG Eickhoff (J. Schörmann)
- 14:00      *Applied Solid State Physics:*  
AG Schirmeisen (D. Dietzel)  
AG Schlettwein (J. Falgenhauer, M. Stumpp)  
AG Dürr (A. Portz)
- 15:00      *Physical Chemistry:*  
AG Smarsly (R. Marschall)  
AG Janek (T. Leichtweiß)
- 16:00      *Organic Chemistry:*  
AG Wegner (S. Ahles)
- 17:00      visit a traditional Christmas market in Giessen
- 13:00 – 15:00**  
**Room B202 IFZ**  
meeting to discuss organisational work for **double degree** program between professors and representatives of the university at administration

## Friday, Dec. 12, 2014

Seminar Room 239 (HBR 16)

- 10:00      **Lecture visit**

**Cultural program / excursion to Marburg**