



International Workshop “Frontiers on Functional Interfaces”

**12. / 13. September 2011
Technical University of Munich, Campus Garching**

Research into understanding and controlling interfaces lies at the confluence of nanoscience, biochemistry, microelectronics, and medicine. In recent years, significant progress in each of these fields has not only increased the importance of hybrid materials systems for applications ranging from renewable energy generation to biomedical implant technology, but also created new challenges in synthesis, measurement, and theory. The focus of this workshop will be on advances in functional interfaces, with a particular emphasis on multi-component and multi-phase materials systems for bioelectronic, biosensing, and biomedical applications. Furthermore, the workshop will highlight the roles and prospects for emerging materials, such as graphene, diamond, and compound semiconductors. Current challenges in determining the complex mechanisms of interaction at interfaces between biological and inorganic systems, precisely tailoring the chemical, structural, and electronic properties of these structures, and designing and synthesizing new molecular linkers and precursors to provide the desired functionality, will all be addressed.

Organizing committee: G. Abstreiter, A. Cattani-Scholz, J.A Garrido, I.D. Sharp, M. Stutzmann.

Abstracts for oral and poster contributions will be accepted until September 2nd (abstract submission to garrido@wsi.tum.de)



Center for Nanotechnology and Nanomaterials (ZNN)
(Walter Schottky Institut)
&
TUM Institute of Advanced Study (IAS)

Invited speakers:

Prof. P. Bergonzo (CEA)

Prof. D. Cahen (Weizmann Institute)

Prof. H. Dietz (TU Munich)

Prof. P. Fromherz (MPI Biochemistry)

Prof. A. Holleitner (TU Munich)

Dr. E. Johnston (Genzyme)

Prof. H. Kawarada (Waseda University)

Prof. K. Kern (MPI Stuttgart)

Prof. A. Kruger (Wurzburg University)

Prof. R. Netz (FU Berlin)

Dr. B. Nickel (LMU)

Prof. J. Schwartz (Princeton University)

Prof. M. Tornow (TU Braunschweig)

Prof. D. RT Zahn (TU Chemnitz)

Preliminary Program

Monday 12. September 2011

Venue:

Institute for Advanced Study (IAS)

Session 1: Carbon Interfaces		9.00-12.00
K. Kern	MPI Stuttgart	
H. Kwarada	Waseda University	
Coffee Break		
A. Holleitner	TU Munich	

Lunchtime (Buffet): 12:00 - 14:00

IAS Building

Session 2: Molecular and organic electronics		14.00-18.30
D. Cahen	Weizmann Institute	
D. RT Zahn	TU Chemnitz	
Coffee Break		
M. Tornow	TU Braunschweig	
B. Nickel	LMU München	

Tuesday 13. September 2011

Venue:

Institute for Advanced Study (IAS)

Session 3: Biointerfaces		9.00-12.00
P. Fromherz		MPI Biochemistry
P. Bergonzo		CEA-Saclay
Coffee Break		
E. Johnston		Genzyme
R. Netz		FU Berlin

Lunchtime (Buffet) & Poster Session: 12:00 - 14:00

Session 4: Self assembling		14.00-18.30
J. Schwartz		Princeton
H. Dietz		TU Munich
Coffee Break		
A. Kruger		Wurzburg University

Buffet
IAS Building**19:00**