427. WE Heraeus Seminar "Molecular and Organic Electronics: Brigding the Gaps"
Bad Honnef, Germany, January 25th-29th, 2009

Monday, January 26th, 2009

Time		Author / Affiliation	Title
08:30	09:10	David Cahen (Weizmann Institute of Science)	Molecular modulation of semiconductor devices
09:10	09:50	Saw-Wai Hla (Ohio U)	Manipulation of charge, spin, and conformation of molecules on surfaces
09:50	10:30	Christof Wöll (U Bochum)	Trapping of charges at the electrode/organic semiconductor interface: Systematic studies using an ideal device
10:30	11:00	Coffee Break	
11:00	11:40	Takuzo Aida (U Tokyo)	Programmed assembly for molecularly engineered electronic materials
11:40	12:20	Dieter Neher (U Potsdam)	On the correlation between heterojunction-topology and photovoltaic performance in polymer-based solar cells
12:20	14:00	Lunch Break	
14:00	14:40	Klaus Müllen (MPI Mainz)	Self-Assembly in molecular electronics
14:40	15:20	Mark A. Reed (Yale U)	Label-Free sensing with silicon nanowires
15:20	15:50	Coffe Break	
15:50	16:30	William R. Salaneck (U Linköping)	Electronic structure of hybrid interfaces
16:30	17:10	Ullrich Scherf (U Wuppertal)	Chemical design of functional oligomers and (co)polymers for electronic applications
17:10	17:50	Nong Jian Tao (Arizona State U)	Understanding electron transport via single molecules: From Benzene to graphene

Tuesday, January 27th, 2009

Time		Author / Affiliation	Title
08:30	09:10	Martin Wolf (FU Berlin)	Dynamics of interfacial electron transfer and photoinduced isomerization at metal surfaces
09:10	09:50	Nobuo Ueno (Chiba U)	Bridging electronic states and electrical property with UPS
09:50	10:30	Frank Schreiber (U Tübingen)	From single molecules to assemblies: Watching structural and optical changes in real time
10:30	11:00	Coffee Break	
11:00	11:40	Marcel Mayor (U Basel)	Molecules in electronic circuits: From molecular design to new integration strategies
11:40	12:05	Rainer Fink (U Erlangen)	Can x-ray microspectroscopy probe inhomogeneities in the electron structure of organic devices?
12:05	12:30	Dietrich R. T. Zahn (TU Chemnitz)	Metal-on-organic interface formation probed by in situ Raman monitoring
12:30	14:00	Lunch Break	
14:00	14:40	Mark A. Ratner (Northwestern U)	States and rates and transport
14:40	15:20	Abraham Nitzan (Tel Aviv U)	Cooperative effects in molecular conduction
15:20	15:50	Coffe Break	
15:50			
		Poster Session	
	17:50		

427. WE Heraeus Seminar "Molecular and Organic Electronics: Brigding the Gaps"
Bad Honnef, Germany, January 25th-29th, 2009

Wednesday, January 28th, 2009

Time		Author / Affiliation	Title
08:30	09:10	Richard Berndt (U Kiel)	Conductance of controlled single atom and single molecule contacts
09:10	09:35	Paolo Samori (ISOF Bologna)	Light-powered electrical switch based on cargo lifting azobenzene monolayers
09:35	10:00	Martin Oehzelt (U Linz)	Pentacene and para-sexiphenyl heterostructures on clean and oxygen reconstructed copper surfaces
10:00	10:25	Nikolai Severin (HU Berlin)	Alignment of molecular energy levels between two biased metallic electrodes
10:25	11:00	Coffee Break	
11:00	11:40	Antoine Kahn (Princeton U)	Energetics of organic interfaces: small molecules vs. polymers and UHV vs. ex-situ processing
11:40	12:05	Ayelet Vilan (Weizmann Institute of Science)	Parameterization of tunneling I-V – what can we learn from simplistic models?
12:05	12:30	Stephen Berkebile (U Graz)	Intra- and intermolecular band dispersion in an organic monolayer
12:30	14:00	Lunch Break	
14:00	14:40	Karl Leo (TU Dresden)	Organic devices: From lab curiosities to applications
14:40	15:05	Sebastian Scholz (TU Dresden)	Ab initio calculation of the dispersion interaction between a polyaromatic molecule and a noble metal substrate: PTCDA on Ag(110)
15:05	15:30	Thomas Chassé (U Leipzig)	Initial growth of organic molecules on polycrystalline substrates – distinguishing between first layers and thin films
15:30	16:00	Coffe Break	
16:00	16:40	Hagen Klauk (MPI Stuttgart)	Organic thin-film transistors with inorganic molecular gate dielectrics
16:40	17:05	Gregor Witte (U Marburg)	Application of substituted SAMs to control electronic interface properties

Thursday January 29th, 2009

Time		Author / Affiliation	Title
08:30	09:10	Christian Kumpf (FZ Jülich)	From attractive to repulsive intermolecular interaction: A reversible phase transition in an ordered organic submonolayer film
09:10	09:50	Peter Bäuerle (U Ulm)	Thiophene-based materials for organic solar cells – Photovoltaics of the third generation
09:50	10:15	Michael Zharnikov (U Heidelberg)	Charge transfer dynamics in self-assembled monomolecular films
10:15	10:40	Achim Schöll (U Würzburg)	Electronic structure and interaction in organic hybrid systems
10:40	11:00	Coffee Break	
11:00	11:40	Egbert Zojer (TU Graz)	Controlling the energy-level alignment at metal-organic interfaces
11:40	12:05	Georg Heimel (HU Berlin)	Surface engineering for organic semiconductors: The impact of intramolecular polar bonds
12:05		Lunch	

427. WE Heraeus Seminar "Molecular and Organic Electronics: Brigding the Gaps"
Bad Honnef, Germany, January 25th-29th, 2009

Poster Contributions

Author	Title
C. C. Bof Bufon	Rolled-up devices based on hybrid organic-inorganic nanomembranes
B. Bröker	Gold work function reduction by 2.2 eV with an air-stable molecular donor layer
M. B. Casu	Spectro-microscopy investigations of diindenoperylene on gold
P. D'Angelo	Quantitative analysis of charge carrier trapping in organic thin-film transistors from transfer characteristics
H. G. Flesch	Structural properties of quinquethiophene based self assembled monolayers – an x-ray scattering investigation
J. Frisch	Energy levels and work function of ultra-thin polythiophene films on conductive polymer electrodes
R. Gresser	Investigating aza-bodipy for organic electronics
Sieu Ha	Single molecular dopants in pentacene and corresponding spatial electronic effects observed by scanning tunneling microscopy/spectroscopy
M. Hermenau	Degradation studies on organic solar cells containing ZnPc and C60
A. Hinderhofer	Optical characterization of pentacene and perfluoropentacene thin films by variable angle spectroscopic ellipsometry
A. Höfer	STM study of the well-ordered first sexithiophene layer on Au(001) and its thermally induced modifications
O. T. Hofmann	Computational study of charge transfer between strong electron donor systems and coinage metal electrodes
C. Hub	In-situ STXM investigations of pentacene-based OFETs during operation
S. Olthof	p-doping organic semiconductors: a study of varying doping concentrations
B. A. Paez-Sierra	Surface-enhanced Raman resonators (SERRs): Liquids and photons on a chip
H. Peisert	Charge transfer and polarization screening at organic-metal interfaces
G. M. Rangger	Vacuum level alignment and fermi level pinning at metal/SAM/organic semiconductor heterojunctions
R. C. Savage	Growing supramolecular wires
S. Schmaus	Studying transport across single phthalocyanine molecules with STM
C. Schmidt	Tailoring electronic interface properties by means of fluorinated aromatic SAMs
N. Schneider	Electronic and optical properties of single atom and molecule junctions
P. Sebastian	Investigation on the origin of the memory effect in devices containing organic semiconducting materials
A. Straub	Defects in thin films of sexithiophene (6T)
S. Tornow	Multiple electron transfer and transport through a DNA dimer
A. Track	Theoretical and experimental study of structure and electronic properties of anthraceneselenol SAMs on Au(111)
A. Volmer	Fabrication and characterization of crystalline organic nanocolumn arrays