

# WINTERSCHOOL ON ORGANIC ELECTRONICS

## The Role of Interfaces

Organizers:

Egbert Zojer, Roland Resel - TU Graz and N. Koch - HU Berlin

**January 26<sup>th</sup> - January 31<sup>st</sup>, 2008**

Universitäts-Sportheim Plannersalm

Donnersbach, Austria



	01/26/2008 Saturday	01/27/2008 Sunday	01/28/2008 Monday	01/29/2008 Tuesday	01/30/2008 Wednesday	01/31/2008 Thursday
08:30		Ramsey	Rabe	Müllen	Ueno	Stadlober
09:20		Bröker	Hlawacek	Beverina	Douhard	Ruderer
09:40		Berkebile	Salzmann		Mine	Haase
10:00		<i>Break</i>	<i>Break</i>	10:10 <i>Break</i>	<i>Break</i>	<i>Break</i>
10:30		Witte	Bonfiglio	List	Zeppenfeld	Brinkmann
11:20		Asadi	Pacher/Zojer	Cristadoro	Mikhnenko	Resel
11:40		Käfer	Cosseddu	Schiek	Bruevich	Koini
12:00		<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>
13:00		<i>leisure activities</i>	<i>leisure activities</i>	<i>leisure activities</i>	<i>leisure activities</i>	<i>leisure activities</i>
17:10	<b>Welcome !</b>	Heimel	Neher	Schreiber	Vázquez	Harkema
18:00	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>	<i>Dinner</i>
19:00		Romaner	Jakabovic	Rangger	Lex	
19:20		POSTERS	POSTERS	POSTERS	POSTERS	
21:00						

## Sunday, 27<sup>th</sup> January 2008

08:30 - 10:00 Chairman: R. Resel / E. Zojer

08:30 – 09:20: M. G. Ramsey

**Growth and electronic band structure of electronically active organic films**

09:20 – 09:40: B. Bröker

**Metal work function tuning with new molecular acceptors**

09:40 – 10:00: S. Berkebile

**TBA**

10:00 – 10:30: *Coffee break*

10:30 - 12:00 Chairman: J. P. Rabe

10:30 – 11:20: G. Witte

**Self-assembled monolayers**

11:20 – 11:40: K. Asadi

**TBA**

11:40 – 12:00: D. Käfer

**New approach for metallization of SAMs by making use of electronegativity**

12:00 – 13:00: *Lunch*

13:00 – 17:00: *Leisure activities*

17:10 - 20:00 Chairman: Harkema

17:10 – 18:00: G. Heimel

**Quantum mechanical simulation of self-assembled monolayers**

18:00 – 19:00: *Dinner*

19:00 – 19:20: L. Romaner

**DFT calculations including van der Waals dispersion forces: PTCDA on Ag(111)**

19:20 – 21:00: Poster session

## Monday, 28<sup>th</sup> January 2008

08:30 - 10:00 Chairman: M. Brinkmann

08:30 – 09:20: J. P. Rabe

**TBA**

09:20 – 09:40: G. Hlawacek

**Zeno effect and step edge barrier in organic thin films**

09:40 – 10:00: I. Salzmann

**The electronic structure of Pentacene/Fullerene layered and co-deposited thin films on poly(ethylenedioxythiophene):poly(styrenesulfonate) (PEDOT:PSS)**

*10:00 – 10:30: Coffee break*

10:30 - 12:00 Chairman: N. Koch

10:30 – 11:20: A. Bonfiglio

**Flexible organic field effect transistors with tunable threshold-voltage**

11:20 – 11:40: P. Pacher and E. Zojer

**Controlling the characteristics of organic thin film transistors through interface modifications**

11:40 – 12:00: P. Cosseddu

**Flexible Organic Field Effect Transistors with tunable threshold-voltage**

*12:00 – 13:00: Lunch*

*13:00 – 17:00: Leisure activities*

17:10 - 20:00 Chairman: G. Witte

17:10 – 18:00: D. Neher

**Organic Light-Emitting Devices and Interface Tuning**

*18:00 – 19:00: Dinner*

19:00 – 19:20: J. Jakabovic

**Preparation and properties of parylene layers for OFETs**

19:20 – 21:00: Poster session

## Tuesday, 29<sup>th</sup> January 2008

08:30 - 10:00 Chairman: N. Ueno

08:30 – 09:20: K. Müllen

**TBA**

09:20 – 10:00: L. Beverina

**Organic chemistry as a tool for surface modification**

*10:10 – 10:30 :Coffee break*

10:30 - 12:00 Chairman: F. Schreiber

10:30 – 11:20: E. List

**TBA**

11:20 – 11:40: A. Cristandoro

**Soft-landing mass spectrometry of rigid p systems for ordered and ultrapure layers for organic electronics**

11:40 – 12:00: M. Schiek

**Nanofibers from functionalised organic semiconductors**

*12:00 – 13:00: Lunch*

*13:00 – 17:00: Leisure activities*

17:10 - 20:00 Chairman: M. G. Ramsey

17:10 – 18:00: F. Schreiber

**Structural characterisation of organic thin films**

*18:00 – 19:00: Dinner*

19:00 – 19:20: G. Rangger

**Bonding of organic acceptors on coinage metals – combining theory and experiment**

19:20 – 21:00: Poster session

## Wednesday, 30<sup>th</sup> January 2008

08:30 - 10:00 Chairman: H. Vázquez

08:30 – 09:20: N. Ueno

**Advanced UPS studies of weakly interacting organic layers**

09:20 – 09:40: B. Douhard

**Application of ToF-SIMS and XPS in organic electronics**

09:40 – 10:00: N. Mine

**Depth profiling polymers and multi-layers with very low energy ions**

*10:00 – 10:30: Coffee break*

10:30 - 12:00 Chairman: A. Stadlober

10:30 – 11:20: P. Zeppenfeld

**Optical characterisation of organics on surfaces**

11:20 – 11:40: O. V. Mikhnenko

**Low temperature study of the exciton diffusion in conjugated polymers**

11:40 – 12:00: V. Bruevich

**Possibilities of exohedral metallocomplexes of fullerenes for polymer solar cells**

*12:00 – 13:00: Lunch*

*13:00 – 17:00: Leisure activities*

17:10 - 20:00 Chairman: D. Neher

17:10 – 18:00: H. Vázquez

**Modelling Organic/Metal Interfaces**

*18:00 – 19:00: Dinner*

19:00 – 19:20: A. Lex

**Investigation of chemically and photochemically reactive siloxane thin layers for surface modification**

19:20 – 21:00: Poster session

## Thursday, 31<sup>st</sup> January 2008

08:30 - 10:00 Chairman: A. Bonfiglio

08:30 – 09:20: B. Stadlober

**The role of interfaces for device degradation**

09:20 – 09:40: Ruderer

**Structure and Morphology of Conducting Polymerfilms for Photovoltaic Application**

09:40 – 10:00: A. Haase

**Organic photodiodes on printed ITO coatings for flexible organic photodiodes**

*10:00 – 10:30: Coffee break*

10:30 - 12:00 Chairman: P. Zeppenfeld

10:30 – 11:20: M. Brinkmann

**Using Transmission Electron Microscopy to analyze the structure and morphology of organic functional materials**

11:20 – 11:40: R. Resel

**Structural properties of sexiphenyl / pentacene / sexithiophene triple layer organic heterostructure on a Cu(110)-(2x1)O surface**

11:40 – 12:00: M. Kioni

**Epitaxial order of pentacene on Cu(110)-(2x1)O induced by surface corrugation**

*12:00 – 13:00: Lunch*

*13:00 – 17:00: Leisure activities*

17:10 - 20:00 Chairman: K. Zojer

17:10 – 18:00: S. Harkema

**Challenges for the industrial realization of organic electronics**

*18:00 – 19:00: Dinner*

