

6th WINTERSCHOOL ON ORGANIC ELECTRONICS

Self-Assembly and Hybrid Devices

March 4th – March 9th, 2012
 Universitäts-Sportheim Planneralm
 Donnersbach, Austria

	March 4th	March 5th	March 6th	March 7th	March 8th	March 9th
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 – 9:30		C. Teichert (Leoben)	M. Zharnikov (Heidelberg)		F. Cacialli (London)	A. Petrozza (Milano)
9:30 – 10:00		A.J. Ben-Sasson (Haifa)	D.A. Egger (Graz)	A. Ringk (Bayreuth)	E.D. Glowacki (Linz)	M. Bednorz (Linz)
		break	break	break	break	break
10:30 – 11:00		E. List (Weiz)	A. Petritz (Graz)	P. Zeppenfeld (Linz)	W. Heiss (Linz)	M. Sagmeister (Weiz)
11:00 – 11:30			F. Leonardi (Bologna)	A. Winkler (Graz)		B. Friedel (Graz)
11:30 – 12:00		S. Lai (Cagliari)	S. Casalini (Bologna)	O. Hofmann (Berlin)	G. Celichowski (Lodz)	
12:00 – 13:00		lunch	lunch	lunch	lunch	lunch
13:00 – 14:00	lunch	leisure and social activities	leisure and social activities	leisure and social activities	leisure and social activities	
14:00 – 14:30	WELCOME					
14:30 – 15:30	F. Schreiber (Tübingen)					
15:30 – 16:00	A. Neuhold (Graz)					
16:00 – 16:30	break					
16:30 – 17:00	A. Bonfiglio (Cagliari)					
17:00 - 17:30						
17:30 – 18:00	L.S. Grodd (Siegen)	C. Groves (Durham)	M.A. Rampi (Ferrara)	S.A. Ponomarenko (Moscow)	T. Cramer (Bologna)	
18:00 – 19:00	dinner	dinner	dinner	dinner		
19:00 – 19:30	POSTER A	POSTER A	L. Muccioli (Bologna)	POSTER B	POSTER B	
19:30 – 20:00	M. Sferazza (Brussels)	F. Santoni (Rome)		A. Terfort (Frankfurt)	J. Novák (Tübingen)	
20:00 – 20:30	POSTER A	POSTER A		POSTER B	POSTER B	

Tutorial talks

Contributed talks

POSTER

Sunday, 4th March 2012

13:00 – 14:00: Lunch

14:00 – 14:30: Welcome

14:30 – 16:00 Chairman: Roland Resel

14:30 – 15:30: F. Schreiber (Universität Tübingen)

Five lessons in growth of organic heterostructures

15:30 – 16:00: A. Neuhold (Graz University of Technology)

Structural characterization of organic / organic interfaces of orthogonal soluble polymers

16:00 – 16:30: break

16:30 – 20:30 Chairman: Norbert Koch

16:30 – 17:30: A. Bonfiglio (University of Cagliari)

An introduction to field effect devices

17:30 – 18:00: L.S. Grodd (University of Siegen)

Electrical properties of P3HT during thin film formation

18:00 – 19:00: Dinner

19:00 – 19:30: Poster session A

19:30 – 20:00: M. Sferrazza (Université Libre de Bruxelles)

Probing soft interfaces with neutron reflection

20:00 – 20:30: Poster session A

Monday, 5th March 2012

08:30 – 12:00 Chairman: Annamaria Petrozza

08:30 – 09:30: C. Teichert (Montanuniversität Leoben)

Probing self assembly by atomic-force microscopy based techniques

09:30 – 10:00: A.J. Ben-Sasson (Technion – Israel Institute of Technology, Haifa)

Switching mechanisms and structural optimization of the vertical organic FET

10:00 – 10:30: Coffee break

10:30 – 11:30: E.J.W. List (NanoTec Center Weiz Forschungsgesellschaft mbH)

Organic and organic / hybrid memory elements and integration aspects at the system level

11:30 – 12:00: S. Lai (University of Cagliari)

Hybrid gate dielectric for the fabrication of highly flexible organic thin film transistors operating at ultra-low voltage

12:00 – 13:00: Lunch

13:00 – 17:00: Leisure and social activities

17:00 – 20:30 Chairman: Luca Muccioli

17:00 – 18:00: C. Groves (Durham University)

Mesoscopic Monte Carlo modeling of organic electronic devices

18:00 – 19:00: Dinner

19:00 – 19:30: Poster session A

19:30 – 20:00: F. Santoni (University “Tor Vergata”, Rome)

Simulation of space charge limited organic non volatile memory elements

20:00 – 20:30: Poster session A

Tuesday, 6th March 2012

08:30 – 12:00 Chairman: Frank Schreiber

08:30 – 09:30: M. Zharnikov (Universität Heidelberg)

Self-assembled monolayers on metal substrates: basic properties, design, and applications

09:30 – 10:00: D.A. Egger (Graz University of Technology)

The impact of distributing dipoles in self-assembled monolayers

10:00 – 10:30: Coffee break

10:30 – 11:00: A. Petritz (Joanneum Research, Graz)

Self-assembled monolayers as functional layers in organic thin film transistors with minimized gate overlaps by self-aligned nanoimprinting

11:00 – 11:30: F. Leonardi (CNR-ISMN Bologna)

Label-free approach for dopamine sensing based on self-assembly monolayer-organic thin film transistors (SAM-OTFTs)

11:30 – 12:00: S. Casalini (CNR-ISMN Bologna)

Charge injection in pentacene-based organic thin-film transistors (OTFTs) exploiting self-assembly monolayers (SAMs)

12:00 – 13:00: Lunch

13:00 – 17:00: Leisure and social activities

17:00 – 20:00 Chairman: Andreas Terfort

17:00 – 18:00: M.A. Rampi (University of Ferrara)

Controlling and gating current flowing in molecular junctions

18:00 – 19:00: Dinner

19:00 – 20:00: L. Muccioli (University of Bologna)

Simulating self-assembling materials with molecular and atomistic models

Wednesday, 7th March 2012

08:30 – 12:00 Chairman: Tobias Cramer

08:30 – 09:30:

09:30 – 10:00: A. Ringk (Universität Bayreuth)

N-Type self-assembled monolayer field effect transistors and SAM-CMOS-Circuits

10:00 – 10:30: Coffee break

10:30 – 11:00: P. Zeppenfeld (Johannes Kepler University Linz)

Adsorption, structure and optical properties of porphyrins on surfaces

11:00 – 11:30: A. Winkler (Graz University of Technology)

Various scenarios for the nucleation of rod-like organic molecules

11:30 – 12:00: O.T. Hofmann (Fritz-Haber-Institut der Max-Planck-Ges., Berlin)

Tailoring hybrid states at inorganic / organic interfaces: Pyridine / ZnO

12:00 – 13:00: Lunch

13:00 – 17:00: Leisure and social activities

17:00 – 20:30 Chairman: Michael Zharnikov

17:00 – 18:00: S.A. Ponomarenko (Russian Academy of Sciences, Moscow)

Self assembled monolayers on dielectrics

18:00 – 19:00: Dinner

19:00 – 19:30: Poster session B

19:30 – 20:00: A. Terfort (Goethe-University of Frankfurt)

Ferrocene-termini in self-assembled monolayers to control charge transfer

20:00 – 20:30: Poster session B

Thursday, 8th March 2012

08:30 – 12:00 Chairman: Maria Anita Rampi

08:30 – 09:30: F. Cacialli (University College London)
Threaded molecular wires as model conjugated polymers with controlled interstrand interactions

09:30 – 10:00: E.D. Glowacki (Johannes Kepler University Linz)
Hydrogen bonding in organic semiconductors

10:00 – 10:30: Coffee break

10:30 – 11:30: W. Heiss (University Linz)
Synthesis and optical properties of monodisperse and spherical metal-oxide colloidal nanoparticles – an introduction

11:30 – 12:00: G. Celichowski (University of Lodz)
Specific requirements of gold nanoparticles synthesis, characterization and deposition for hybrid nanostructures

12:00 – 13:00: Lunch

13:00 – 17:00: Leisure and social activities

17:00 – 20:30 Chairman: Peter Zeppenfeld

17:00 – 18:00: T. Cramer (CNR-ISMN Bologna)
Low dimensionality effects in organic field effect transistors

18:00 – 19:00: Dinner

19:00 – 19:30: Poster session B

19:30 – 20:00: J. Novák (Eberhard-Karls-Universität Tübingen)
Application of GISAXS for characterization of hybrid thin films

20:00 – 20:30: Poster session B

Friday, 9th March 2012

08:30 – 12:00 Chairman: Egbert Zojer

08:30 – 09:30: A. Petrozza (Istituto Italiano di Tecnologia, Milano)

Improving light harvesting and charge generation in dye sensitized solar cells

09:30 – 10:00: M. Bednorz (Johannes Kepler University Linz)

Silicon / organic hybrid heterojunction infrared photodetector operating at room temperature in the telecommunication range

10:00 – 10:30: Coffee break

10:30 – 11:00: M. Sagmeister (Joanneum Research, Weiz)

A multifunctional optical sensor platform based on integrated organic photodiodes

11:00 – 11:30: B. Friedel (Graz University of Technology)

Phase-separation in polymer blends – a novel approach to improved nanoscale imaging on OPVs

12:00 – 13:00: Lunch