



scientific programme

winterschool on organic electronics

27 January – 2 February 2007, Plannersalm, Austria

National Research Network (NFN)

„Interface Controlled and Functionalised Organic Films“

	January 27th	January 28th	Januray 29th	Januray 30th	January 31st	February 1st	February 2nd
	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 -		DODABALAPUR	TEICHERT	KERN	SOKOLOWSKI	BAUER	Cirak
- 10:00		Plochberger	Puschnig	Trimmel	Romaner	Irimia-Vladu	HADLEY
10:00 - 10:30		break	break	break	break	break	summary
10:30		Singh	Zeppenfeld	LEGGETT	AMBROSCH-DRAXL	VAN HAL	
- 12:00		Stadlober	Kytka	Pacher	Berkebile	List	
		Stadler	Sun				
12:00		lunch	lunch	lunch	lunch	lunch	lunch
13:00 - 16:00		skiing	skiing	skiing	skiing	skiing	departure
17:30	dinner	dinner	dinner	dinner	dinner	dinner	
18:30 - 19:30	welcome	POSTER	POSTER	POSTER	POSTER	POSTER	
19:30		Erten	Andreev	Werzer	Koller	Schrader	
		OSTERMANN	Frank	Käfer	Matt		
			Hernandez-Sosa	NFN-COMMITTEE			



Sunday, 28th January 2007

chairman: Helmut Sitter, speaker of the NFN, Johannes Kepler University Linz

8:30 – 9:30

Ananth Dodabalapur, University of Texas, Austin

Organic thin film transistors: history and current developments

9:30 – 10:00

Birgit Plochberger, Johannes Kepler University Linz

Barium doped C₆₀ for field effect transistors

10:00 – 10:30 coffee break

10:30 - 11:00

Birendra Singh, Johannes Kepler University Linz

N-channel field effect transistors and ring oscillators based on epitaxially grown C₆₀ fullerene films

11:00 – 11:30

Barbara Stadlober, Institute of Nanostructured Materials and Photonics, Weiz

Scaling laws in organic thin film transistors

11:30 – 12:00

Philipp Stadler, Johannes Kepler University Linz

Hysteresis in organic field effect transistors

18:30 – 19:30 POSTER

chairman: Serdar N. Sariciftci, Johannes Kepler University Linz

19:30 – 20:00

Sule Erten, Ege University, Izmir

Air-stable and soluble derivatives of perylene and naphthalene diimide for n-channel organic semiconductors

20:00 – 21:00

Timm Ostermann, Johannes Kepler University Linz

Device and electronic circuit modelling

Monday, 29th January, 2007

chairman: Claudia Ambrosch-Draxl, University of Leoben

8:30 - 9:30

Christian Teichert, University of Leoben

Application of atomic force microscopy techniques for surface analysis

9:30 – 10:00

Peter Puschnig, University of Leoben

Cohesive and surface energies of organic molecular crystals

10:00 – 10:30 coffee break

10:30 – 11:00

Peter Zeppenfeld, Johannes Kepler University Linz

Characterisation of organic thin films by optical means

11:00 – 11:30

Milan Kytka, Slovak University of Technology Bratislava

Ellipsometry on the amorphous rubrene thin films

11:30 – 12:00

Lidong Sun, Johannes Kepler University Linz

Growth of sexithiophene (6T) films studied by RDS

18:30 – 19:30 POSTER

chairman: Adi Winkler, Graz University of Technology

19:30 – 20:00

Andrej Andreev, University of Leoben

Para-sexiphenyl thin films grown on KCl substrates

20:00 – 20:30

Paul Frank, Graz University of Technology

Tailoring of ultrathin hexaphenyl films on mica(001) through surface modifications

20:30 – 21:00

Gerardo Hernandez Sosa, Johannes Kepler University Linz

New crystalline phase of sexiphenyl needles on mica??

Tuesday, 30th January 2007

chairman: Dieter Meissner, Johannes Kepler University Linz

8:30 – 9:30

Wolfgang Kern, Graz University of Technology

Surface chemistry and lithographic patterning for organic electronics

9:30 – 10:00

Gregor Trimmel, Graz University of Technology

Photoreactions in thin organic films based on the photoisomerisation of benzyl thiocyanates and aromatic esters

10:00 – 10:30 coffee break

10:30 – 11:30

Graham Leggett, University of Sheffield

Patterning of self-assembled monolayers

11:30-12:00

Peter Pacher, Graz University of Technology

Thin reactive layers for ammonia detection with organic thin film transistors

18:30 – 19:30 POSTER

chairman: Christian Teichert, University of Leoben

19:30 – 20:00

Oliver Werzer, Graz University of Technology

Pentacene monolayers and submonolayers on silicon oxide: a combined x-ray reflectivity and AFM study

20:00 – 20:30

Daniel Käfer, Ruhr-University Bochum

Improving performance of pentacene OFETs using aromatic thiols

20:30

Meeting of the NFN steering committee

only for project leaders of the National Research Network

Wednesday, 31st January 2007

chairman: Egbert Zojer, Graz University of Technology

8:30 – 9:30

Moritz Sokolowski, University Bonn

Surface science with organic molecules

9:30 – 10:00

Lorenz Romaner, Graz University of Technology

Adsorption of F4TCNQ on Cu(111): a combined experimental and theoretical study

10:00 – 10:30 coffee break

10:30 – 11:30

Claudia Ambrosch-Draxl, University of Leoben

How to calculate the electronic structure of organic semiconductors

11:30 – 12:00

Stephen Berkebile, Karl Franzens University Graz

Inter- and intramolecular dispersion in a highly ordered organic molecular crystal

18:30 – 19:30 POSTER

chairman: Wolfgang Kern, Graz University of Technology

19:30 – 20:00

Georg Koller, Karl Franzens University Graz

Heteroepitaxy of organic-organic nanostructures: fundamental aspects of growth and electronic structure

20:00 – 20:30

Gebhart Matt, University of Applied Sciences, Wels

Threshold phenomena in C₆₀-fullerene based field effect transistor

Thursday, 1st February 2007

chairman: Michael Ramsey, Karl Franzens University Graz

8:30 – 9:30

Siegfried Bauer, Johannes Kepler University Linz

Electret, ferroelectret and ferroelectric organic field effect transistors: devices and applications

9:30 – 10:00

Mihai Irimia-Vladu, Johannes Kepler University Linz

Low frequency dielectric spectroscopy of polyvinylalcohol gate dielectrics

10:00 – 10:30 coffee break

10:30 – 11:30

Paul van Hal, Philips Research Laboratories Eindhoven

Large area molecular electronics

11:30 – 12:00

Emil List, Graz University of Technology

All solution processed organic field effect transistors

18:30 – 19:30 POSTER

chairman: Peter Zeppenfeld, Johannes Kepler University Linz

19:30 – 20:00

Sigurd Schrader, University of Applied Sciences Wildau

Thermally stimulated relaxation in organic molecular solids

Friday, 2nd February 2007

chairman: Siegfried Bauer, Johannes Kepler University Linz

8:30 – 9:00

Julius Cirak, Slovak University of Technology Bratislava

Perspectives of Langumir Blodgett layers for molecular electronics

9:00 – 10:00

Peter Hadley, Graz University of Technology

New approaches for inorganic and organic electronic devices
