WINTERSCHOOL ON ORGANIC ELECTRONICS

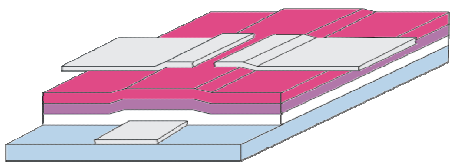
Fundamental Properties of Devices – Sensors, Transistors and Solar Cells

March 6th – March 12th, 2010
Universitäts-Sportheim Planneralm
Donnersbach, Austria

	March 6th	March 7th	March 8th	March 9th	March 10th	March 11th	March 12th
	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 - 9:30		S. Sariciftci (Linz)	B. Stadlober (Weiz)	A.F. Morpurgo (Geneva)	K. Leo (Dresden)	P. Puschnig (Leoben)	J. Krenn (Graz)
9:30 - 10:00		E. Spadafora (Grenoble)	T. Haber (Graz)	M. Marchl (Graz)	M. Bednorz (Linz)	E. Zojer (Graz)	S. Bauer (Linz)
		break	break	break	break	break	SUMMARY
10:30 - 11:00		G. Trimmel (Graz)	E.C.P. Smits (Eindhoven)	K. Zojer (Graz)	C. Simbrunner (Linz)	P. Jelinek (Prag)	
11:00 - 11:30			H.-G. Flesch (Graz)				
11:30 – 12:00		V. Kamm (Mainz)	Q. Shen (Leoben)	M. Sams (Linz)	F. Quochi (Cagliari)	A. Fleming (Graz)	
12:00		lunch	lunch	lunch	lunch	lunch	lunch
13:00 – 17:00		leisure and social activities	leisure and social activities	leisure and social activities	leisure and social activities	leisure and social activities	
17:00 – 18:00		C. McNeill (Cambridge)	P. Samori (Strasbourg)	G.G. Malliaras (Gardanne)	M.A. Loi (Groningen)	N. Koch (Berlin)	
18:00	dinner	dinner	dinner	dinner	dinner	dinner	
19:00 – 20:15		POSTER A	POSTER A	NFN-Meeting	POSTER B	POSTER B	
20:15 – 20:45	WELCOME	A. Pivrikas (Linz)	P. Zeppenfeld (Linz)	T. Griesser (Leoben)	H. Yoshida (Kyoto)	J. Stettner (Graz)	

Tutorial talks | Contributed talks | POSTER

Das Land Steiermark
Wissenschaft und Forschung



FWF
Der Wissenschaftsfonds.

This winterschool is organized by the National Research Network (NFN) funded by the Austrian Science Foundation. It is a network of scientific groups from Austria, which are working together to perform joint research on basic science of organic thin films and their application in organic electronics.

Poster A

Color tuning on para-sexiphenyl based OLEDs
I. Watzinger, G. Hernandez-Sosa, C. Simbrunner, H. Sitter

Parameter-extraction of organic light-emitting devices by using transient measurement-techniques
K.A. Brossi, M.T. Neukom, E. Knapp, N.A. Reinke, B. Ruhstaller

Photo-CELIV transients of organic bulk heterojunction solar cells
M.T. Neukom, K.A. Brossi, N.A. Reinke, B. Ruhstaller

Polymer guest host system and their potential applications for opto-electronic devices
U. Abaci, D.A.M. Egbe, E. Arici-Bogner

New low band gap based 3,6 bisthiophencarbazole polymers for the organic photovoltaic
N. Berton, C. Ottone, F.R. Bettignies, F. Chandezon, S. Sadki

Temperature and carrier concentration dependent mobility in pentacene films, characterized by photo-CELIV
M.S. White, A. Pivrikas, N.S. Sariciftci

Low voltage complementary organic inverters on glass
T. Rothländer, U. Palfinger, B. Stadlober, A. Haase, H. Gold, G. Jakopic, J.R. Krenn

Controlling the electronic properties and morphology of the active layer in organic thin film transistors by an interfacial photoreactive layer
S. Kirnstötter, M. Marchl, T. Obermüller, A. Haase, M. Edler, T. Griesser, E. Zojer

Parylene gate dielectric for organic field effect transistors
G. Schwabegger, C. Simbrunner, M. Ullah, G. Hernandez-Sosa, H. Sitter

Ultra violet light sensitive polymer as gate dielectric in organic field effect transistors
A. Montaigne Ramil, T. Griesser, N.S. Sariciftci, W. Kern, Q. Shen, C. Teichert

Dependence of Meyer-Neldel Energy on energetic disorder in organic materials
M. Ullah, A.K. Kadashchuk, P. Stadler, A. Pivrikas, C. Simbrunner, N.S. Sariciftci, H. Sitter

The electronic structure of pristine and doped molecular films
S. Berkebile, E. Reinisch, T. Ules, T. Seyller, M.G. Ramsey, G. Koller

The applications of momentum-resolved electronic structure of organic molecules and films
S. Berkebile, T. Ules, P. Puschnig, G. Koller, A. Fleming, K. Emtsev, Th. Seyller, C. Ambrosch-Draxl, F.P. Netzer, M.G. Ramsey

Structure of pentacene thin films deposited on organic dielectrica
A. Moser, H.-G. Flesch, A. Neuhold, M. Edler, T. Griesser, M. Marchl, A. Golubkov, G. Trimmel, A. Haase, D.-M. Smilgies, J. Jakabovic, E. Zojer, R. Resel

Fiber-textured and epitaxial growth of perfluoropentacene and pentacene hetero-structures on amorphous and single crystalline substrates
I. Salzmann, M. Oehzelt, S. Duhm, B. Wedl, D. Nabok, J.P. Rabe, N. Koch

Growth of sexi-thiophene on muscovite mica
C. Simbrunner, G. Hernandez-Sosa, M. Oehzelt, R. Resel, T. Djuric, D. Nabok, L. Romaner, P. Puschnig, C. Ambrosch-Draxl, H. Sitter

Island formation and coalescence stage during rubrene film growth
K. Rehman, H. Sitter

Air-stable molecular donors for electron injection interlayers on metal electrodes
B. Bröker, R.-P. Blum, G. Heimel, J. Frisch, J.P. Rabe, N. Koch, L. Beverina, M. Sassi, R. Ruffo, G.A. Pagani, O.T. Hofmann, E. Zojer, R. Rieger, K. Müllen, A. Vollmer

Epitaxial growth of sexiphenyl and sexithiophene on Ag(110)
M. Oehzelt, I. Salzmann, G. Weidlinger, D.R. Fritz, S. Duhm, Th. Wagner, L.D. Sun, T. Djuric, M. Koini, R. Resel, S. Berkebile, G. Koller, M.G. Ramsey, P. Zeppenfeld

Growth of α-6T needles on Ag(110) imaged by PEEM
D.R. Fritz, Th. Wagner, M. Oehzelt, P. Zeppenfeld

Application of laser scanning confocal microscopy to the characterization of organic thin films - rubrene on mica (001)
H. Zaglmayr, L.D. Sun, G. Weidlinger, P. Zeppenfeld, Sh.M. Abd Albaqi, G. Hernandez-Sosa, C. Simbrunner, H. Sitter, D. Nabok, C. Ambrosch-Draxl

Conductive atomic force microscopy investigations of organic thin films
A. Pavitschitz, I. Beinik, M. Kratzer, C. Teichert, S.-V. Radl, T. Griesser, W. Kern

UV-patterning and surface modification using the photochemistry of spiropyranes
L. Hauser, M. Jäger, T. Griesser, W. Kern, G. Trimmel

Patterning and functionalization of organic thin layers on silicon surfaces by means of UV light
M. Edler, T. Griesser, W. Kern, G. Trimmel, Q. Shen, C. Teichert, H.-G. Flesch, S. Ausserlechner, M. Marchl, E. Zojer, R. Resel, A.M. Track, G. Koller, M.G. Ramsey

Poster B

Organic heterostructure photodiodes - thin film morphologies and crystal structures of the organic layers
A. Neuhold, S. Fladischer, N. Matsko, S. Mitsche, A. Moser, H.-G. Flesch, E. Kraker, D.-M. Smilgies, A. Haase, W. Grogger, R. Resel

Organic photodiodes for multianalyte-sensor application
E. Kraker, B. Lamprecht, A. Haase, G. Jakopic, T. Abel, C. Konrad, S. Köstler, M. Tscherner, T. Mayr, J.R. Krenn

Silver-nanowires as a transparent electrode for organic solar cells
C. Sachse, L. Müller-Meskamp, M. Machala, K. Leo

Investigation of excitonic effects in organic thin-film transistors by means of a two-dimensional drift-diffusion approach
M. Gruber, M. Marchl, B.A. Stickler, F. Schürrer, E. Zojer, A. Haase, K. Zojer

Theoretical investigation of the influence of material parameters on the device performance of organic-inorganic hybrid solar cells by two-dimensional drift-diffusion simulations
B.A. Stickler, M. Gruber, G. Trimmel, K. Zojer, F. Schürrer

Design and synthesis of alternating regioregular π-conjugated oligomers and polymers for organic photovoltaic cells
Z. Yahya, F. Lincker, Y. Kervella, P. Rannou, R. De Bettignies, B. Grevin, A. Pron, R. Demadrille, J.-P. Travers

Investigation of transport properties of a new donor-acceptor polymer, poly-2-dodecyl-4,7-di(thiophene-2-yl)-2H-benzo[1,2,3]triazole (PTBT)
S. Tekoglu, A. Montaigne Ramil, B. Meana-Esteban, A. Balan, D. Baran, L. Toppare, H. Neugebauer, N.S. Sariciftci

Impact of chemically reactive alkyltrichlorosilane layers on the threshold voltage of organic thin film transistors
S. Ausserlechner, H.-G. Flesch, M. Marchl, P. Pacher, T. Obermüller, A.W. Golubkov, S.K. Possanner, A. Haase, B. Stadlober, G. Trimmel, R. Resel, K. Zojer, F. Schürrer, E. Zojer

Air stable organic field effect transistor based on poly(2-methoxy-5-(2-ethyl-hexyloxy)-1,4-phenylenevinylene)
M. Abbas, E. Arici-Bogner, N.S. Sariciftci

Selective dispersion of single-walled carbon nanotubes for field effect transistor application
J. Gao, M.A. Loi

Reversible p- and n-doping of pentacene: from spectroscopy to devices
S. Schaur, B. Meana Esteban, P. Stadler, H. Neugebauer, N.S. Sariciftci

Fully printed, flexible large area organic optothermal sensors for human-machine-interfaces
J. Magnien, M. Zirkl, G. Scheipl, B. Stadlober, A. Haase, G. Jakopic, J. Krenn

Triplet exciton diffusion in conjugated polymers
O.V. Mikhnenko, P.W.M. Blom, M.A. Loi

A semi-classical model for fast estimation of the work function modification induced by charge transfer monolayers
O.T. Hofmann, B. Bröker, R.-P. Blum, F. Rissner, G.M. Rangger, R. Rieger, K. Müllen, N. Koch, E. Zojer

The energetics of mixed self-assembled monolayers: a DFT study.
F. Rissner, D.A. Egger, L. Romaner, G. Heimel, E. Zojer

UPS investigations to understand the relation between energy level alignment and device performance
A.M. Track, P. Stadler, M. Ullah, H. Sitter, G.J. Matt, T.B. Singh, H. Neugebauer, N.S. Sariciftci, G. Koller, M.G. Ramsey

The initial stages of sexiphenyl (6P) and pentacene (5A) film growth
T. Ules, S. Berkebile, A. Fleming, Fanghua Li, T. Djuric, R. Resel, M.G. Ramsey

Epitaxially grown films of standing and lying pentacene molecules on Cu(110) surfaces
T. Djuric, H.-G. Flesch, T. Ules, S. Berkebile, G. Koller, H. Plank, Q. Shen, C. Teichert, M.G. Ramsey, R. Resel

Equilibrium geometries of the organic rod-like molecules on dielectric substrates
D. Nabok, L. Romaner, P. Puschnig, C. Simbrunner, G. Hernandez-Sosa, M. Oehzelt, R. Resel, T. Djuric, H. Sitter, C. Ambrosch-Draxl

Thin film growth, thermal stability and desorption kinetics of HAT-CN on Au(111) and Ag(111)
P. Frank, T. Djuric, M. Koini, N. Koch, R. Rieger, K. Müllen, R. Resel, A. Winkler

Para-sexiphenyl templates for alpha-sexithiophene aligned nanostructures
G. Hernandez-Sosa, C. Simbrunner, M. Oehzelt, R. Resel, H. Sitter

Sub-monolayer growth investigations of para-sexiphenyl on silicon dioxide
S. Lorbek, G. Hlawacek, C. Teichert

Initial stages of para-hexaphenyl film growth on sputter-modified mica(001)
T. Potocar, Q. Shen, S. Lorbek, C. Teichert, A. Winkler