

PROGRAMME

Tuesday, 20 May 2008

- 10:00 OpeningAddresses
- Introductions**
- 10:20 **Berggren, M.**; Linköping (S)
Organic Bioelectronics
- 11:00 **Torsi, L.**; Farinola, G. M.; Iliade, P.; et al.; Bari (I)
Chemical and biological sensors with organic thin film transistors
- 11:40 **Brabec, Ch.**; Linz (A)
Design rules for organic solar cells
- 12:15 *Lunch time and poster session 1*
- OLEDs**
- 13:15 **Jabbour, G. E.**; Tempe (USA)
Progress in printed quantum dots, OLEDs and solar cells
- 13:45 **Todt, U.**; May, C.; Amelung, J.; Leo, K.; Dresden (D)
OLED for large area lighting as well as for optoelectronic microsystems
- 14:10 **Krüger, H.**; Thesen, M.; Janietz, S.; et al.; Potsdam (D)
Solution-processible multilayer phosphorescent PLEDs based on cross-linkable copolymer structures
- 14:30 **Fuchsbaauer, A.**; Sariciftci, N. S.; Yang, H.; Linz (A)
Solvent treated para-quaterphenyl organic light emitting diodes
- 14:50 *Coffee break*
- Materials 1**
- 15:20 **Sotzing, G.**; Storres (USA)
Precursor approaches for processing electrochromic conjugated polymers
- 15:50 **Dagron-Lartigau, Ch.**; Pau (F)
Regioregular polythiophene copolymers for solar cells
- 16:10 **Ponomarenko, S.**; Borschev, O. V.; et al.; Moskau (RUS)
Solution processible dendritic semiconductors for organic electronics
- 16:30 **Sanchez, L. .**; Fernández, G.; et al.; Madrid (ES)
Concave-convex redox-amphoteric supramolecular architectures
- 16:50 **Paraschuk, D. Yu.**; Golovnin, I. V.; et al.; Moskau (RUS)
Drastic enhancement in photooxidation stability of MEH-PPV in blends with organic acceptors

Meeting of the lecturers

PROGRAMME

Wednesday, 21 May 2008

- OPV 1 (Organic photovoltaic cells 1)**
- 9:00 **Inganäs, O.**; Linköping (S)
Folded reflective multijunction polymer solar cells
- 9:35 **Thelakkat, M.**; Sommer, M.; Hüttner, S.; Bayreuth (D)
From structural to functional control in organic and hybrid solar cells using novel material and device concepts
- 10:00 **Sensfuss, S.**; Blankenburg, L.; et al.; Rudolstadt (D)
Comparison of thienopyrazine-based low bandgap polyphenylene vinylenes with MDMO-PPV under the viewpoint of solar cell applications
- 10:25 *Coffee break*
- 10:45 **Shuttle, C. G.**; O'Regan, B.; et al.; London (UK)
Recombination dynamics in organic solar cells
- 11:10 **Colsmann, A.**; Kohler, D.; et al.; Karlsruhe (D)
Efficiency improvement of P3HT:PCBM solar cells by intermixed electron transport materials
- 11:35 **Brütting, W.**; Opitz, A.; Bronner, M.; et al.; Augsburg (D)
Ambipolar organic semiconductor blends for photovoltaic cells
- 12:00 *Lunch time and poster session 2*
- OFET 1**
- 13:00 **Sariciftci, N. S.**; Singh, B.; Grote, J.; Hopkins, F.; Linz (A)
DNA as dielectric in BioFETs
- 13:30 **Fichou, D.**; Gif-sur-Yvette (F)
Hierarchical design of 2D molecular self-assemblies: From molecules to devices
- 14:00 **Shkunov, M.**; Rawcliffe, R.; et al.; Guildford (UK)
Self-assembly in organic field-effect-transistors
- 14:30 **Scheinert, S.**; Herasimovich, A.; Ilmenau (D)
Origin of non-linearity in output characteristics of organic field-effect-transistors
- 14:50 *Coffee Break*
- Sensors**
- 15:15 **Stadlober, B.**; Zirkl, M.; Groten, J.; Weiz (A)
Pyroelectric polymer sensors: fabrication, characterization and application in organic electronics
- 15:45 **Tardy, J.**; Diallo, K.; Erouel, M.; et al.; Lyon (F)
Top gate organic transistors for sensor applications
- 16:10 **Tanda, A.**; Gaar, N.; Linz (A)
The application and modeling of organic pressure sensors
- 16:35 **Hayden, O.**; Kern, J.; Fürst, J.; Erlangen (D)
Organic photodetectors for four-quadrant sensors
- 16:55 **List, E.**; Graz (A)
Printed organic and inorganic sensor devices
- 17:20 *End of the session*

PROGRAMME

Thursday, 22 May 2008

- Materials 2**
- 9:00 **Kirchmeyer, S.**; Leverkusen (D)
Polymeric conductors for printed electronics
- 9:30 **Strehmel, B.**; Baumann, H.; et al.; Osterode (D)
Photopolymers in the printing world form slow conventional to high speed digital systems and their prospective use for printing of functional inks
- 9:50 **Weber, L.**; Sensfuß, S.; Ritter, U.; et al.; Ilmenau (D)
Oligomeric fullerene derivatives for photoactive layers of high supra-molecular order
- 10:10 **Mikhaylov, A.**; Kuzina, S. I.; et al.; Moskau (RUS)
New kinetic approaches to research of matrix nanoarchitecture for polymer electronics
- 10:30 *Coffee break*
- OPV 2**
- 10:50 **Kroon, J. M.**; Petten (NL)
Device manufacturing of polymer and hybrid solar cells at ECN
- 11:20 **Janietz, S.**; Krueger, H.; et al.; Potsdam (D)
Tailoring of low band gap polymer structure for efficient organic solar cells
- 11:40 **Egbe, D.**; Baumann, R.; et al.; Chemnitz (D)
Polymers for photovoltaic Applications: What can we learn from PPE-PPV Systems?
- 12:00 **Troshin, P. A.**; Renz, J.; et al.; Chernogolovka (RUS)
Molecular structure, solubility and morphology effects in design of novel fullerene-based materials for organic solar cells
- 12:20 **Hoppe, H.**; Muhsin, B.; Renz, J.; et al.; Ilmenau (D)
Geometry of polymer solar cells modules: experiment, calculation and optimization
- 12:40 **Manik, N.**; Maity, S.; Haldar, A.; Kolkata (IND)
Analysis of photocurrent growth and decay of Crystal violet dye based photo electrochemical cell in photovoltaic mode
- 13:00 *Lunch time*
- OFET 2**
- 13:30 **Horowitz, G.**; Marmont, P.; Lang, P.; et al.; Paris (F)
Improved contact resistance in organic thin-film transistors using self-assembled monolayers bearing an electric dipole moment
- 14:00 **Paasch, G.**; Dresden (D)
Influence of distributed traps on space-charge-limited currents in organics

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- 14:30 **Johnen, F.**; Hauff, v. E.; Parisi, J.; Oldenburg (D)
Investigation of contact resistances in polymer field effect transistors using a gated four-probe technique with consideration of the effects of film thickness
- 14:45 **Schmidt, K.**; Ullmann, A.; Böhm, M.; et al.; Fürth (D)
Integrated circuits based on polymeric materials
- 15:10 **Schrödner, M.**; Schultheis, K.; et al.; Rudolstadt (D)
Reel to reel film coating technique for production of functional layers for polymer PV and electronics
- 15:30 **Kempa, H.**; Fugmann, U.; Hahn, U.; et al.; Chemnitz (D)
Progress in mass-printed electronics
- 15:50 **General discussion - Closing words - Farewell drinks**
- Posters (sessions on May 20 and 21)**
- Bärenklau, M.**; Gobsch, G.; Hoppe, H.; Ilmenau (D)
Micro-analysis of fullerene crystals in annealed P3HT-PCBM blends
- Egginger, M.**; Irimia-Vladu, M.; Tanda, A.; et al.; Linz (A)
Sodium acetate in polyvinylalcohol: How to control the hysteresis in organic field effect transistors?
- Haldar, A.**; Maity, S.; Manik, N. B.; Kolkata (IND)
Study on photovoltaic of the mixture of cationic and anionic dye
- Karnthidaporn, X.**; Payathei (Thailand)
High thermal conductive filled epoxy resin
- Kühnlenz, F.**; Gobsch, G.; Hoppe, H.; Ilmenau (D)
Effect of vacuum pressure during metal electrode sublimation on polymer solar cell performance
- Maity, S.**; Haldar, A.; Manik, N. B.; Kolkata (IND)
Comparison of different organic dye doped photovoltaic solid state PEC
- Mathews, N.**; Gif-Sur-Yvette (F)
Steady-state and transient photocurrents in rubrene single crystals air-gap transistors
- Muhsin, B.**; Renz, J.; Drüe, K.-H.; Gobsch, G.; et al.; Ilmenau (D)
Effect of polymer solar cell geometry on photovoltaic performance
- Rösch, R.**; Hörselmann, I.; Herasimovic, A.; et al.; Ilmenau (D)
Impedance spectroscopy on polymer solar cells
- Lindauer, H.**; Herzau-Gerhard, U.; et al.; Rudolstadt (D)
Printing of electronics by offset technology using a high-resolution CtP plate
- Valozhyn, A.**; Minsk (BRUS)
Polyimide films modified with CNT
- Zielke, D.**; Bielefeld (D)
Modelling of devices and circuits for printed polymer electronics
- The list of posters is not completed yet. Submission of posters is still possible up to 14 March 2008.

3rd International Symposium

Technologies for Polymer Electronics TPE 08

20 - 22 May 2008

Rudolstadt / Germany



TITK Rudolstadt



organised by

TU Ilmenau



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INVITATION and PROGRAMME

2nd Circular

**3rd International Symposium
Technologies for Polymer Electronics TPE 08**
20 - 22 May 2008
Rudolstadt / Germany

The Symposium is organised by both the technology oriented polymer research institute TITK Rudolstadt and the Technical University Ilmenau (TU Ilmenau).

Background and aims of TPE 08

The 1st and 2nd TPE symposium in Rudolstadt took place in 2004 and 2006 as events with many excellent lectures. (The contributions are still available on CD) Each time more than 100 participants coming from 20 countries attended TPE 04/06.

TPE 08 will bring together researchers and developers working in areas of polymer electronics. Special interest lies in approaches to the large scale production of polymer electronics in connection with material problems and application fields of plastic electronics.

Regarding TPE 08 the abbreviation TITK stands for

- T** Trends in R & D of polymer electronics
- I** Innovations in fabrication of OFETs, IPCs, polymer solar cells (OPV), OLEDs and polymer film sensors
- T** Technologies for production of plastic electronics
- K** Know-how exchange and transfer

TITK is an institute at the Technical University Ilmenau.

The TU Ilmenau has a long tradition of outstanding education in the technological sectors of electrical and mechanical engineering, nano- and opto-electronics, information science and others.

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Opening hours of the Conference Office

19 May	15.00 - 19.00	TITK	} Rudolstadt Breitscheidstr. 97
20 - 22 May	08.00 - 18.30	TITK	

Poster, papers and abstracts

For the symposium proceedings the lecturers and authors of posters are asked to submit an extended abstract of 2 to 5 pages by e-mail until **14 March 2008**. Format: Heading in Times New Roman 14 pts bold capital letters corresponding author with an asterisk. Affiliations and address of the corresponding author, Times New Roman 12 pts, single spaced. The typing area is 160 x 250 mm. Please use Times New Roman characters with a size of 12 points and 1 1/2 line spacing. The abstracts will be reproduced in black and white. The proceeding book will be handed over to all participants at the beginning of the symposium.

Posters can be up to 100 cm width and up to 100 cm length.

Registration fees

Participants from	Payment until 14/03/08	Payment later than 14/03/08
Industry and Companies	590 EURO	690 EURO
Universities and Research Institutes	490 EURO	590 EURO
TITK e.V. Members TU Ilmenau	460 EURO	560 EURO
Students	190 EURO	290 EURO

The fees include the admission to all lectures and poster sessions, the book of abstracts, the CD-ROM with complete lectures and posters, coffee breaks, lunches and the social events.

Registration

Participants are requested to register via the enclosed registration form or via Internet <http://www.titk.de>. For each participant a separate registration form is necessary.

The fee should be transferred to TITK Rudolstadt:

Account number: 441490
KSK Saalfeld-Rudolstadt, BLZ/routing code 83050303
SWIFT No.: HELADEF1SAR
IBAN: DE56 8305 0303 0000 441490 / Code word: TPE 08
All participants will get a receipt on the registration fee.

Cancellations can be accepted in written form only. In case of cancellation, the following fees become due: until 18 April 08: 100,- €, after that: full fee, the proceedings and the CD will be sent.

SOCIAL PROGRAMME

(for participants and guests)

Wednesday, 21 May 2008

Symphonic Concert

19:00

former

Franciscan Monastery

of Saalfeld

Dinner

20:00

Ratskeller

Town Hall of Saalfeld

Locality of Rudolstadt

Rudolstadt is situated in the center of Germany. It belongs to the federal state Thuringia and to the administrative district Saalfeld-Rudolstadt. It is near the Inter City Express railway (ICE) Berlin - Leipzig - Nuremberg - Munich. The next ICE station Saalfeld/Saale is at a distance less than 10 km to the symposium venue in Rudolstadt-Schwarzra. The distances from Rudolstadt and Saalfeld to Leipzig are about 130 km and to Nuremberg about 200 km. The distances to Berlin, Frankfurt/M. and Munich are about 300 km. The cultural centers Weimar, Erfurt and Jena are at a distance of about 50 km. Rudolstadt and Saalfeld are small towns at the Saale river with a history of about 1100 years and picturesque Old Towns. Thuringia is also called the „Green Heart“ of Germany with big forests and romantic valleys, and it is a place for recreation.

Contact to the organiser

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How to reach the Symposium Venue



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