Preliminary Program

International Symposium on Flexible Electronics 2010 (ISFE'10)

April 11-14, 2010

Palma de Mallorca, Spain

Conference Chair

Professor Rodrigo Picos
Universitat de les Illes Balears (UIB)

Conference Co-Chairs

Professor Michael Shur
Center for Broadband Data Transport and
RPI Research Site of "Connection One" NSFI/UCRC

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Sunday, April 11, 2010

16:00 – 18:00	Conference check-in
18:00 – 19:00	Welcome reception
19:00	Dinner on own

Monday, April 12, 2010

09:00 – 09:15	**Welcoming Remarks and Opening of the Conference** Rodrigo Picos, Universitat de les Illes Balears (UIB) Michael Shur, Center for Broadband Data Transport and RPI Research Site of "Connection One" NSFI/UCRC Benjamin Iniguez, Universitat Rovira I Virgili (URV)
09:15 – 10:00	**Plenary 1** New Architectures for the Organic Transistor Gilles Horowitz, Paris Diderot University, France
10:00 – 10:45	**Plenary 2** Low-Temperature Amorphous, Nanocrystalline and Polymorphous Silicon Thin-Film Transistors – Applications for Flexible Electronics C.A. Dimitriadis, Aristotle University of Thessaloniki, Greece
10:45 – 11:15	Coffee Break
11:20 – 12:40	**Modeling 1**
11:20 – 11:40	A Study on Nanoscale Materials Devices in Organic Electronics Application and Some Computational Models Katya Marinova Simeonova, Bulgarian Academy of Sciences, Bulgaria
11:40 – 12:00	Physical Spice Modeling of Organic Field-Effect Transistors Slobodan Mijalkovic, Silvaco Europe Ltd., UK
12:00 – 12:20	Impact of the Universal Mobility Law on Polycrystalline Organic Device and Circuit Operation Munira Raja, University of Liverpool, UK
12:20 – 12:40	Compact Capacitance Model for OTFTs Alejandra Castro-Carranza, Universitat Rovira I Virgili, Spain
12:45 – 14:30	Lunch
14:30 – 16:10	**Fabrication 1**
14:30 – 14:50	Flip Chip Lamination Approach to Fabricate Top Metal Contacts on Organic –Based Devices Mariona Coll, NIST, USA
14:50 – 15:10	Low Voltage Complementary Organic Inverters on Flexible Substrates Thomas Rothlaender, Joanneum Research Institute, Austria

15:10 – 15:30	Self-Aligned Nanoimprinted Organic Transistrors on Flexible Substrates Ursula Palfinger, Joanneum Research Institute, Austria
15: 30 – 15:50	Methodology and Tools for Inkjet Process Abstraction for the design of Flexible and Organic Electronics Jordi Mujal, Universitat Autonoma de Barcelona, Spain
15:50 – 16:10	A-Si:H TFT Backplanes Fabricated on Flexible Substrates with Improved Overlay Misalignment Maryam Moradi, IGNIS Innovation Inc., Canada
16:10 – 16:40	**Coffee Break**
16:40 – 18:00	**Fabrication 2**
16:40 – 17:00	Flexible Optoelectronic Device Fabrication Jacobus W. Swart, Centro de Tecnologia da Informação Renato Archer (CTI), Brazil
17:00 – 17:20	Organic Photodiodes for Flexible Multi-Analyte-Sensors Elke Kraker, Joanneum Research Institute, Austria
17:20 – 17:40	Flexible Acceleration Sensors Based on Polymer-Electronic Materials Dirk Zielke, University of Applied Sciences Bielefeld, Germany
17:40 – 18:00	Flexible Organic Field-Effect-Transistors Jacek Ulanski, Technical University of Lodz, Poland
18:00	Dinner on own

Tuesday, April 13, 2010

09:00 – 09:45	**Plenary 3** European Networks of Excellence Flexnet and Polynet – Two NoE in the Area of Flexible Organic and Large Area Electronics to Foster Transfer from Science to Industry within EU Lars Heinze, VDI/VDE Innovation + Technik GmbH, Germany
09:45 – 10:30	**Plenary 4** Flexible Electronics Related-Projects in the European Union Francisco Ibanez, European Commission
10:30 – 11:00	Coffee Break
11:00 – 12:40	**Fabrication 3**
11:00 – 11:20	P3HT Nanopillar Arrays on ITO Substrates for Developing P3HT Nanostructured Solar Cells Lluis F. Marsal, University of Rovira I Virgili, Spain
11:20 – 11:40	Flexible Vertical ZNO Nanowire Array Solar Cell JG Lu, University of Southern California, USA
11:40 – 12:00	Micromorph Tandem Solar Cells on Clear Plastic Substrates Ehsanollah Fathi, University of Waterloo, Canada

12:00 – 12:20 Solution Processed OFETs Developed on Flexible Substrates by a New Lithographic Technique Based on Electro-Mechanical Ablation
Angel Luis Alvarez, Universidad Rey Juan Carlos, Spain

12:20 – 12:40 Femtogram Controlled Definition of Highly-Ordered Polyaniline Nanoarchitectures
Sorin Melinte, Universite Catholique de Louvain, Belgium

12:30 – 14:30 Lunch

14:30 – 15:50 **Fabrication 4**

14:30 – 14:50 Engineering Approach to Materials and Devices Development
Nir Tessler, Technion, Israel

14:50 – 15:10 Organic Thin-Film Transistors with E-Beam Cured Polymeric Gate Dielectrics
Gamal Abbas, University of Oxford, UK

15:10 – 15:30 Polythiophene Composites with Plasmonic Gold Nanoparticles: Electrical and Optical Properties
Jiri Pfleger, Institute of Macromolecular Chemistry AS CR, Czech Republic

15:30 – 15:50 Fabrication of Complementary Organic Inverters with Different W/L Ratios
A. Marsal, Universitat Politecnica Catalunya, Spain

15:50 - 16:10 Coffee Break

16:10 – 17:00 **Plenary 5**
Theoretical Description of Charge Transport in Disordered Organic Materials
Sergei Baranovski, Philipps-University Marburg, Germany

17:45 – 19:00 **Poster Session**

Accurate Incorporation of the Channel-Length Modulation Effect in the Improved A-SI RPI-TFT Compact
V.O. Turin, Orel State Technical University, Russia

Sacrificial Layer Technology for Fabrication of Acceleration Sensors
Andreas Hense, University of Applied Sciences Bielefeld, Germany

PMMA on F8T2 PTFTS Structures with Photolithography Defined Gold Contacts and Inter-Level Connections
Israel Mejia, CINVESTAV-IPN, Mexico

The Transforming EM Head Coils: From Microscopy to Amplification
Rostyslav Sklyar, Ukraine

Electron and Hole Trapping in Organic Semiconductors
Asal Kiazedeh, Universidade do Algarve, Centre of Electronic Optoelectronics and Telecommunications (CEOT), Portugal

New N-functionalized arylene bisimides as semiconductors for air operating, all organic N-channel field effect transistors, fabricated via solution processing
Malgorzata Zagorska, Warsaw University of Technology, Poland

20:00 – 22:00 Conference Dinner

Wednesday, April 14, 2010:

09:00 – 09:45 **Plenary 6**
Manufacturing and Material Formulation Strategies for Bottom-Gate Polymer Dielectrics in Organic TFTS
Markus Burghart, Fraunhofer IZM-M, Germany

09:45 – 10:30 **Plenary 7**
Low Stress TFTs on Transparent Plastic
Arokia Nathan, University College London, UK

10:30 – 11:00 Coffee Break

11:00 – 12:40 **Modeling 2**

11:00 – 11:20 Compact Modeling of Advanced Thin Film Transistors: Issues and Challenges
Michael Shur, Rensselaer Polytechnic Institute, USA

11:20 – 11:40 Towards' a Compact Model for the Injection of Charge into Organic/Polymeric Semiconductors
Juan A. Jimenez Tajada, Universidad de Granada, Spain

11:40 – 12:00 Fabrication and Simulation of Complementary Organic Inverter
Niikos P. Papadopoulos, Aristotle University of Thessaloniki, Greece

12:00 – 12:20 Polymeric Thin Film Transistors: A Review on Fabrication and Modeling
Magali Estrada, Ingenieria Electrica, Mexico

12:20 – 13:00 Final Discussions and Conference Closing

13:00 Lunch and Departure