



WORKSHOP ON FLEXIBLE ELECTRONICS. Tarragona, June 29 2016.

Final Programme.

8:30

Opening

Benjamin Iñiguez (Universitat Rovira i Virgili)

08:40

Session 1. Mini-Colloquium on Compact Modeling and Parameter Extraction

08:40

« Flexible Electronics : Oportunities and Challenges »

Jamal Deen (McMaster University, Canada)

09:20

“Inverted Bulk Heterojunction Organic Solar Cell Based on PTB7:PC70BM with a Titanium oxide as Electron Transport Layer”

Lluís Marsal (URV, Spain)

09:50

“Characterization and modeling of Organic and Oxide Semiconductor TFTs”

Magali Estrada (CINVESTAV, Mèxic)

10:20

“Modelling Organic Memristors in the Charge-Flux Space”

R. Picos, M. M. Al Chawa, and E. García-Moreno (UIB; Spain)

10:40

Coffee break

11:00

"TFT Circuit Building Blocks and Design Tools for Flexible Electronics".

Arokia Nathan(University of Cambridge, UK)

Session 2. Flexible Photovoltaics Technologies

11:30

“Flexible and disposable printed devices for temperature control and monitoring”

Alberto Loi, Úrbez Santana, Claudia Delgado, and Paul Lacharmoise (EURECAT, Spain)

11:50

“Charge transfer and charge recombination processes in hybrid lead halide perovskite solar cells studied via laser pulse generated species life-times”

Ilario Gelmetti and Emilio Palomares (ICIQ, Spain)

12:10

“Photo-induced charge kinetics of MAPbI₃ vs FAPbI₃ perovskite solar cells”

J. Jiménez-López, L. Cabau, E. Palomares (ICIQ, Spain)

12:30

“Modeling charge carrier collection efficiency in small-molecule organic solar cells”

S. Galindo¹, G. Gerling¹, M. Ahmadpour¹, S. W. A. Maulidiani¹, M. Birhanu¹, J. M. Asensi², R. Alcubilla¹, C. Voz¹, J. Puigdollers¹, ¹UPC, ²UB

12:50

“Role of the Metal-Organic Interfaces in the Modeling of Organic Solar Cells”

J. A. Jiménez Tejada, P. López-Varo (Universidad de Granada, Granada, Spain), O. Marinov, C. H. Chen and M. J. Deen (McMaster University, Hamilton, Ontario, Canada)

Session 3: Printed Technologies

13:10

“Ink-Jet Configurable Gate Arrays”

Jordi Carrabina (UAB), Mohammad Mashayekhi (UAB), Manuel Llamas (UAB), Lluís Terés (IMB-CNM(CSIC)), Jofre Pallarès (IMB-CNM(CSIC)), Jody Maick Matos (UFRGS), Andre Reis (UFRGS)

13:30

“Scale-Up Technique for Printing Organic Semiconductors for High Performance Transistors”

S. Galindo, F. G. del Pozo, S. Georgakopoulos, R. Pfattner, I. Temiño, M. Mas-Torrent
ICMAB-CSIC (Spain)

13:50:00

Lunch

14:50

Session 4. LEDs

14:50

“Towards the Printed Hybrid Organic-Inorganic Light Emitting Diodes”

Nikola Perinka and Eugenia Martínez-Ferrero (EURECAT, Spain)

15:10

“Synthetic Challenges on the construction of QLEDs”.

S. Paulo (ICIQ, EURECAT) , E. Martínez-Ferrero (EURECAT) and E. Palomares (ICIQ)

Session 5: OTFT modelling

15:30

“Conduction Threshold and Mechanisms in Disordered Thin Film Transistors”

Sungsik Lee (Univ. of Cambridge, UK)

15:50

“Charge distribution and contact resistance model for coplanar organic field-effect transistors with Gaussian density-of-state”

Yongjeong Lee, Sungyeop Jung, Gilles Horowitz and Yvan Bonnasieux (Ecole Polytechnique, France)

16:10

“Charge-Based Current Model of Organic TFT for All Operation Regions with a Close Link to Electrical Device Parameters”

Alexander Kloes (THM, Germany), F. Hain (THM), Michael Graef (THM), B. Iñiguez (URV)

16:30

“Influence of humidity on parameters of Organic Thin Film Transistors”

Luczak A., Jung J., Ulanski J., (Lodz University of Technology, Poland)

16:50 End of the workshop