

# 6<sup>th</sup> International Symposium on Flexible Organic Electronics (ISFOE13), 8-11 July 2013, Thessaloniki, Greece

## PRELIMINARY PROGRAM (updated daily)

**Monday 8 July 2013**

08:00	Registration
09:00 – 09:15	"Welcome and Opening Remarks" S. Logothetidis ISFOE Chairman
09:15 – 11:00	<b>Workshop on OLAE Materials I</b> Chairs: Prof. G. Hadzioannou, <i>LCPO, France</i> Prof. G. Horowitz, <i>CNRS, LPICM, Ecole Polytechnique, Route de Saclay, 91128 Palaiseau, France</i>
09:15 – 09:45 <b>KEYNOTE</b>	Crystal engineering approaches to organic semiconductors John E. Anthony <i>Department of Chemistry, University of Kentucky Lexington, KY, 40506-0055, USA</i>
09:45 – 10:00	Introducing Organic Semiconductors onto Carbon Allotropes A.K. Andreopoulou, <sup>1,2</sup> S. N. Kourkouli, <sup>1</sup> S. Kakogianni, <sup>1</sup> P. Giannopoulos, <sup>1</sup> J. K. Kallitsis <sup>1,2</sup> <sup>1</sup> Department of Chemistry, University of Patras, Greece <sup>2</sup> Foundation for Research and Technology Hellas, Institute of Chemical Engineering Sciences (FORTH-ICE-HT), Patras GR 26504, Greece
10:00 – 10:15	Design of well-defined semi-conducting graft and block copolymers: A tool box for nanostructured materials in organic electronics Cyril Brochon <sup>1,2</sup> , Sébastien-Jun Mognier <sup>1,2</sup> , Eric Cloutet <sup>1,2</sup> , Georges Hadzioannou <sup>1,2</sup> (1) LCPO, Université de Bordeaux, 33607 Pessac, France, (2) LCPO, CNRS, 33607 Pessac, France
10:15 – 10:30	Fabrication and Scale-up of High Performance Low Band-gap Polymer Solar Cells by Spray-Coating in Air T. Wang, N. Scarratt, D. Lidsey The Department of Physics and Astronomy, The University of Sheffield Hicks Building, Hounsfield Road, Sheffield, UK
10:30 – 10:45	High-Mobility, Low-Voltage Organic TFTs based on Air-Stable DNNT Derivatives: Time-Dependent Improvement in Contact Resistance and Dynamic Performance Ulrike Kraft <sup>1,2</sup> , Ute Zschischang <sup>1</sup> , Kazuo Takimiya <sup>3</sup> , Edwin Weber <sup>2</sup> , Hagen Klauk <sup>1</sup> 1Max Planck Institute for Solid State Research, Heisenbergstr. 1, 70569 Stuttgart, Germany 2Inst. for Organic Chemistry, TU Bergakademie Freiberg, 09596 Freiberg, Germany 3Inst. for Advanced Materials Research, Hiroshima University, Higashi-Hiroshima 739-8527, Japan
10:45 – 11:00	Organic Semiconductors - How to Make Reliable Material Characterization. Experience of NoE FlexNet with Round Robin Testing of Materials J. Pfleger <sup>1</sup> , I. Tszydel <sup>2</sup> , T. Marszałek <sup>2</sup> , J. Ulanski <sup>2</sup> , M. Zagórska <sup>3</sup> , P. Tassini <sup>4</sup> , H. L. Gomes <sup>5</sup> , S. Kennou <sup>6</sup> , S. Logothetidis <sup>7</sup> , C. Gravalidis <sup>7</sup> <sup>1</sup> Institute of Macromolecular Chemistry AS CR, Heyrovsky Sq.2, 162 06 Prague, Czech Republic; <sup>2</sup> Technical University of Lodz, Poland; <sup>3</sup> Warsaw University of Technology, Poland; <sup>4</sup> ENEA, Portici, Italy; <sup>5</sup> University of Algarve, Portugal; <sup>6</sup> University of Patras, Greece; <sup>7</sup> Aristotle University of Thessaloniki, Greece

**11:00 – 11:30 | Coffee Break - Posters - Exhibition - Networking**

11:30 – 13:30	<b>Workshop on OLAE Materials II</b> Chairs: Dr. S. Iannotta, <i>IMEM-CNR, Institute of Materials for Electronics and Magnetism, Italy</i> Prof. J. Kallitsis, <i>Department of Chemistry, University of Patras, Greece</i>
11:30 – 12:00 <b>INVITED</b>	Direct Correlation of Structure and Electrical Performance of Conjugated Poly(thiophene) Films S. Grigorian <i>Institute of Physics, University of Siegen, Germany</i>
12:00 – 12:15	Insights on the interface composition in polymer:fullerene Organic Photovoltaics P. Karagiannidis, S. Logothetidis Lab for Thin Films, Nanosystems & Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece
12:15 – 12:30	Thin layer deposition of PEDOT by PRAP-CVD Bianca Rita Pistillo, Kevin Menguelti, Damien Lenoble <i>Centre de Recherche Public - Gabriel Lippmann (Science and Analysis of Materials Department) 41, rue du Brill, Belvaux, Luxembourg</i>
12:30 – 12:45	All-Atom Molecular Dynamics Simulation of the Structural, Thermodynamic, and Packing Properties of the Pure Amorphous and Pure Crystalline Phases of Regioregular P3HT Orestis Alexiadis, Vlasis G. Mavrantas Department of Chemical Engineering, University of Patras & FORTH/ICE-HT, Greece
12:45 – 13:00	On The Stability Of The Electrical And Photoelectrical Properties Of Organic Solar Cells Conducting Polymers M.Girtan <i>Photonics Laboratory, Angers University, 2, Bd. Lavoisier, 49045, Angers, France</i>
13:00 – 13:15	Hybrid fibers with luminescent or magnetic nanocrystals fabricated by sol-gel process for applications Ping Yang, Aiyu Zhang, Yongqiang Cao, Qian Ma, Jirong Wang, Ruixia Shi, Yuanna Zhu

	School of Material Science and Engineering, University of Jinan, Jiwei Road 106, Jinan, 250022, P.R. China
13:15 – 13:30	<b>Pyrene-Based Materials for Optoelectronic Devices</b> B. R. Kaafarani Department of Chemistry, American University of Beirut, Beirut 1107-2020, Lebanon

13:30 – 15:00	Lunch Break - Networking
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	<b>KEYNOTE</b>
15:00 – 16:00	Chairs: Prof. S. Ludwigs, Institut für Polymerchemie Universität Stuttgart, Germany Prof. M. Damnjanović, NanoLab, Faculty of Physics, University of Belgrade, Serbia
15:00–15:30 <b>KEYNOTE</b>	Electronic Processes at Interfaces Involving Organic Semiconductors: A Quantum-Chemical Insight J. Cornil Department of Chemistry, University of Mons Place du Parc 20, B-7000 Mons, Belgium
15:30 – 16:00 <b>KEYNOTE</b>	Understanding and discovering hybrid materials from first principles C. Draxl Physics Department, Humboldt-Universität zu Berlin Zum Großen Windkanal 6, 12555 Berlin, Germany
16:00 – 17:15	<b>Theoretical Approaches &amp; Modelling</b> Chairs: Prof. S. Ludwigs, Institut für Polymerchemie Universität Stuttgart, Germany Prof. M. Damnjanović, NanoLab, Faculty of Physics, University of Belgrade, Serbia
16:00 – 16:30 <b>INVITED</b>	Physical and compact modeling of organic field-effect transistors G. Horowitz CNRS, LPICM, Ecole Polytechnique, Route de Saclay, 91128 Palaiseau, France
16:30 – 16:45	Continuous transformations of C60 crystals G. Volonakis <sup>1</sup> , L. Tsatsaris <sup>2</sup> , S. Logothetidis <sup>1</sup> <sup>1</sup> Lab for Thin Films, Nanosystems & Nanometrology (LTFN), Aristotle University of Thessaloniki, Greece <sup>2</sup> Department of Physics, National Technical University of Athens, GR-15780 Athens, Greece
16:45 – 17:00	A compact model for organic field-effect transistors with improved output asymptotic behaviors C. H. Kim <sup>1</sup> , A. Castro-Carranza <sup>2</sup> , M. Estrada <sup>3</sup> , A. Cerdeira <sup>3</sup> , Y. Bonnassieux <sup>1</sup> , G. Horowitz <sup>1</sup> , B. Iñiguez <sup>2</sup> <sup>1</sup> LPICM, Ecole Polytechnique, CNRS, 91128 Palaiseau, France <sup>2</sup> DEEA, Universitat Rovira i Virgili, 43007 Tarragona, Spain <sup>3</sup> SEES, Departamento de Ingeniería Eléctrica, CINVESTAV, 07360 Mexico D.F., Mexico
17:00 – 17:15	Electronic states at the grain boundaries in the polycrystalline naphthalene M. Mladenovic <sup>1</sup> , N. Vukmirovic <sup>1</sup> , I. E. Stankovic <sup>1</sup> Scientific Computing Laboratory, Institute of Physics Belgrade, University of Belgrade, Serbia
16:00 – 17:15	<b>Workshop on Laser Technologies I</b> Chair: Dr. D. Karnakis, Oxford Lasers, UK
16:00 – 16:30 <b>INVITED</b>	Pulsed Laser Generation of Novel Nanomaterials for Organic Electronics E. Stratikis <sup>1,2</sup> , M. Stylianakis <sup>2,3</sup> , K. Savva <sup>1,2</sup> , M. Sygletou <sup>1,2</sup> , C. Petridis <sup>3</sup> , C. Fotakis <sup>1,2</sup> E. Kymakis <sup>3</sup> 1. Institute of Electronic Structure and Laser, Foundation for Research & Technology Hellas Greece 2. University of Crete, Heraklion 714 09, Greece. 3. Center of Materials Technology & Photonics, Technological Educational Institute of Crete, Greece
16:30 – 16:45	Laser printing of conductive inks at high velocity E. Biver, L. Rapp, A.P. Alloncle, M. Sentis, Ph. Delaporte Aix-Marseille University, CNRS, LP3 laboratory Campus de Luminy, C.917, Marseille, France
16:45 – 17:00	Laser Induced Forward Transfer of single and multilayer organic materials M. Makrygianni <sup>1</sup> , M. Nagel <sup>2</sup> , S. Sanaur <sup>3</sup> , P. Alloncle <sup>4</sup> , P. Delaporte <sup>4</sup> , I. Zergioti <sup>1</sup> 1 Physics Department, National Technical University of Athens, Greece, 2 Lab for Functional Polymers, Swiss Federal Laboratories for Materials Science & Technology, Switzerland 3 Dep. of Bioelectronics, Ecole Nationale Supérieure des Mines de Saint Etienne, CMP-EMSE-MOC, France 4 Aix-Marseille University, CNRS, LP3 laboratory, Campus de Luminy, C.917, 13288 Marseille, France
17:00 – 17:15	Dependence of Photonic Sintering Parameters on Ink Tracks Geometry A. Rotnemer <sup>1</sup> , M. Zenou <sup>1,2</sup> and Z. Kotler <sup>1</sup> <sup>1</sup> Orbotech Ltd, P.O. Box 215, Yavne 81101, Israel. <sup>2</sup> Hebrew University, Racah Institute of Physics, Jerusalem 91904, Israel

17:15 – 18:00	Coffee Break - Posters – Exhibition – Networking
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18:00– 19:30	<b>Workshop on OLAE Materials III</b> Chair: Prof. S. Grigorian, Institute of Physics, University of Siegen, Germany
18:00 – 18:30 <b>INVITED</b>	Title to be announced soon S. Iannotta IMEM-CNR, Institute of Materials for Electronics and Magnetism, Italy
18:30 – 18:45	Influence of bimolecular recombination on the photoconductivity of organic semiconductors J. Jung and J. Ulanski Department of Molecular Physics, Technical University of Lodz, Poland
18:45 – 19:00	Controlled alpha-sexithiophene nanostructure formation in standard and inverted configuration organic solar cells M. Radziwon, A. Gosczak, A.-L. Fernandes Cauduro, M. Madsen, H.-G. Rubahn University of Southern Denmark, The Faculty of Technology, NanoSYD Alion 2, 6400 Sønderborg, Denmark
19:00 – 19:15	Resistive switching effect in doped with metal micro particles polymers Non-volatile memory based on this effect M. Kotova <sup>1</sup> , M. Dronov <sup>2</sup> , I. Belogortsova <sup>3</sup> 1 (Department of Physics, Sub department of Condensed State Physics, Lomonosov MSU) Leninskoe Gory GSP-1, Moscow, 119991, Russia, 2(A.M. Prokhorov General Physics Institute, Moscow) Wawiłowa st., 38, 119991, Russia 3(Federal State Research and Design Institute of Rare Metal Industry "Giredmet", Moscow) B. Tolmachevsky per. 5/1, 119017, Russia
19:15 – 21:00	Posters – Exhibition – Networking
21:00 – ...	DINNER FOR ISFOE13 KEYNOTE AND INVITED SPEAKERS

Tuesday 9 July 2013

08:00	Registration				
	<b>KEYNOTE</b> Chairs: Prof. C. Draxl, Physics Department, Humboldt-Universität zu Berlin, Germany J. Hast, VTT, Finland				
09:00 – 09:30 <b>KEYNOTE</b>	Novel organic semiconductors and fabrication paradigms for plastic electronics Thomas D. Anthopoulos Department of Physics & Centre for Plastic Electronics, Blackett Laboratory, Imperial College London, London, UK				
09:30 - 11:00	<b>Workshop on OLAE Materials IV</b> Chairs: Prof. C. Draxl, Physics Department, Humboldt-Universität zu Berlin, Germany J. Hast, VTT, Finland	09:30 - 11:00	<b>Organic Thin Film Transistors OTFT I</b> Chairs: to be announced soon		
09:30 - 10:00 <b>INVITED</b>	Anisotropic Charge Transport in Semicrystalline Polymer Thin Films S. Ludwigs Institut für Polymerchemie Universität Stuttgart, Germany	09:30 - 09:45	<b>Beyond the electrodes interfacial disorder in pentacene field-effect transistors</b> C. Albonetti1, G. Olivieri1, A. Shehu1, S.D. Quirriga1, S. Casalini1 and F. Biscarini2 1. Consiglio Nazionale delle Ricerche, Istit. per lo Studio dei Materiali Nanostrutt. (CNR-ISMN) Bologna, Italy, 2. Università degli Studi di Modena e Reggio Emilia, Dipartimento di Chimica, via Campi, Modena, Italy		
		09:30 – 10:00	<b>A Prototype Vapour Sensor Incorporating Porphyrin Molecular Films</b> A. Flores1, S. Brittle1, T. H. Richardson1 and A. Dunbar2 1Department of Physics & Astronomy, University of Sheffield, UK 2 Department of Chemical & Biological Engineering, University of Sheffield, UK		
10:00 – 10:30 <b>INVITED</b>	Scalable low temperature TFT backplane processes suitable for flexible display applications and high mobility Organic Semiconductor formulations Simon D. Ogier, Keri L. McCall, Simon R. Rutter, Marco Palumbo, Yong Uk Lee, Louise Evans, Lee Winchester, Tim Pease. National Centre for Printable Electronics, Centre for Process Innovation, Thomas Wright Way, NETPark, Sedgefield, U.K.	10:00 – 10:15	<b>Bias-Stress Stability of Flexible Thin-Film Transistors based on Vacuum-Deposited Organic Semiconductors</b> Ute Zschieschang1, Sibani Bisoyi1,2, Myeong Jin Kang3, Kazuo Takimiya3, Hagen Klauk1 1 Max Planck Institute for Solid State Research, Heisenbergstr. 1, 70569 Stuttgart, Germany 2 Dept. of Information & Communication Technology, Indian Institute of Technology, Jodhpur, India, 3 Dept. of Applied Chemistry, Hiroshima University, Higashi-Hiroshima, Japan		
		10:15 – 10:30	<b>Flexible Carbon Nanotube Based Field Effect Devices fabricated by Roll-to-Roll Flexography</b> Neil Graddage1,2, David Gethin1, Tim Claypole1 , Davide Deganello1 1Welsh Centre for Printing and Coating, College of Engineering, Swansea University, SA2 8PP, UK, 2National Research Council Canada, 1200 Montreal Road, Ottawa, ON, K1A 0R6, Canada		
10:30 – 10:45	Thin-film morphology optimization of organic n-channel transistors based on core-cyanated perylene diimide derivatives M. Sejfic1, U. Kraft1, N. H. Hansen2, J. Pflaum2, U. Zschieschang1, H. Klauk1, R. T. Weitz3 1 Max Planck Institute for Solid State Research, Heisenbergstraße 1, 70569 Stuttgart, Germany, 2 Julius-Maximilians University, 97074 Würzburg, Germany, 3 BASF SE, 67056 Ludwigshafen, Germany	10:30 – 10:45	<b>Intrinsic electrical transport characteristics of solution-processed, air-stable n-type organic fibers</b> J. M. Mativetsky1,2, E. Orgiu1, I. Lieberwirth3, W. Pisula3, P. Samori1 1 Nanochemistry Laboratory, ISIS - CNRS 7006, Université de Strasbourg, Strasbourg, France, 2 Department of Physics, State University of New York at Binghamton, Binghamton, NY, USA 13902, 3 Max Planck Institute for Polymer Research, Ackermannweg 10, 55128 Mainz, Germany		
10:45 – 11:00	Phase Morphology in Poly(thiophene)-Fullerene Thin Film Devices D. G. Bucknall <sup>1</sup> , N Deb <sup>1</sup> , M. Skoda <sup>2</sup> (ISIS, CLRC), B Sumpter <sup>3</sup> , A. Karim <sup>4</sup> , X. Gong <sup>4</sup> 1 Department of Materials Science and Engineering, Georgia Institute of Technology, Atlanta, USA 2 ISIS Neutron and Muon Source, Science and Technology Facilities Council, Rutherford Appleton Laboratory, Harwell Oxford Didcot, OX11 0QX, UK 3 Computational Chemical Sciences Group, Computer Science and Mathematics Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA 4 College of Polymer Science and Polymer Engineering, University of Akron, USA	10:45 – 11:00	<b>Ultra-low voltage floating gate organic thin-film transistors for pressure sensing</b> S. Lai1, P. Cossetdu1,2, A. Calcagni1, M. Barbaro1, A. Bonfiglio1,2 1Department of Electrical and Electronic Engineering, University of Cagliari, Piazza d'Armi, 09123, Cagliari (Italy); 2CNR - Institute of Nanoscience, S3 Centre, Via Campi 213A, 41100, Modena, Italy		
11:00 – 11:30	Coffee Break – Posters ISFOE12 & FP7 – Exhibition - Networking				
11:30 – 13:30	<b>Workshop on OLAE Materials V</b> Chairs: Prof. G. Horowitz, CNRS, LPICM, Ecole Polytechnique, Route de Saclay, 91128 Palaiseau, France Dr. A. Laskarakis, LTFN, Aristotle University of Thessaloniki, Greece	11:30 – 13:30	<b>Workshop on Laser Technologies II</b> Chairs: Prof. Ph. Delaporte, Aix-Marseille University, CNRS, LP3 laboratory, France		
11:30 – 12:00 <b>INVITED</b>	Title to be announced soon J. Hast VTT, Finland	11:30 – 12:00 <b>INVITED</b>	High speed imaging of Laser Induced Forward Transfer Effects of nano- to pico-second pulses on metal donor ejection G.R.B.E. Römer <sup>1</sup> , R. Pohl <sup>1</sup> , C.W. Visser <sup>2</sup> , C. Sun <sup>2</sup> , D. Lohse <sup>2</sup> , A.J. Huis in 't Veld <sup>1,3</sup> 1 Chair of Applied Laser Technology, University of Twente, The Netherlands, 2 Physics of Fluids, Faculty of Science and Techn., MESA+ Institute, University of Twente, The Netherlands, 3 TNO, Eindhoven, The Netherlands		
12:00 – 12:15	Production of Transparent High-Barrier Films for the Encapsulation of Organic Photovoltaics K. Noller, O. Miesbauer, S. Kiese, E. Kucukpinar	12:00 – 12:30 <b>INVITED</b>	Laser Induced Forward Transfer as an advanced tool for direct immobilization of enzymes M. Chatzipetrou <sup>1</sup> , E. Toulopakis <sup>2</sup> , A. Gkouzou <sup>1</sup> , I. Zergioti <sup>1</sup>		

	Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany		<sup>1</sup> National Technical University of Athens, Physics Department, Greece, <sup>2</sup> Department of Chemistry, University of Crete, Greece
12:15 – 12:30	<b>Vacuum Deposited Functional Films for Flexible Electronics</b> J. Fahlteich <sup>1</sup> , M. Fahland <sup>1</sup> , T. Vogt <sup>1</sup> , S. G?nther <sup>1</sup> , N. Schiller <sup>1</sup> <sup>1</sup> Fraunhofer Institute for Electron Beam and Plasma Technology FEP, Dresden, Germany		
12:30 – 12:45	<b>Manufacturing of AgNW-PP fibers and investigation of their suitability as electrode material in fibers with electronic function</b> W. Steinmann <sup>1</sup> , M. Beckers <sup>1</sup> , I. Noll <sup>1</sup> , G. Seide <sup>1</sup> , T. Gries <sup>1</sup> <sup>1</sup> Institut für Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany	12:30 – 12:45	<b>Laser printing of conductive materials for passive microelectronic components</b> J.Ailuno, L. Rapp, A.P. Alloncle, M. Sentis, Ph. Delaporte Aix-Marseille University, CNRS, LP3 laboratory, France
12:45 – 13:00	<b>Photocurable Polymer Dielectrics having Highly Stable Processability in OTFT</b> Eun Kyung Lee <sup>1</sup> , Joo Young Kim <sup>1</sup> , Jong Won Chung <sup>1</sup> , Bang Lin Lee <sup>1</sup> , Jeong Il Park <sup>1</sup> , Ji Youl Lee <sup>1</sup> , Ji Young Jung <sup>1</sup> , Bon Won Koo <sup>1</sup> , Young Jong Kang <sup>*2</sup> <sup>1</sup> Material R&D center, SAIT, Samsung Electronics, San 14, Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, 446-712, Korea, <sup>2</sup> Department of Chemistry, College of Natural Sciences, Hanyang University, 17 Haengdang-dong, Seongdong-gu, Seoul, 133-791, Korea	12:45 – 13:00	<b>Pulsed-laser printing of Graphene/Polymer materials for organic electronic devices</b> S. Papazoglou <sup>1</sup> , M. Makrygianni <sup>1</sup> , S. Chatzandroulis <sup>2</sup> , I. Zergioti <sup>1</sup> <sup>1</sup> Physics Department, National Technical University of Athens, Greece <sup>2</sup> Institute of Microelectronics NCSR Demokritos, Athens, Greece
13:00 – 13:15	<b>Interface Engineering of Field-Effect Transistors: From Concept to Function</b> Xuefeng Guo Department of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China	13:00 – 13:15 PROJECT	<b>Project DigiPRINT: Large Area High Resolution Digital Printing for Organic Thin Film Transistor Fabrication</b> D. Karnakis <sup>4</sup> , S. Ogier <sup>2</sup> , L. Evans <sup>2</sup> , R.Artigas <sup>3</sup> , J.M.Fernandez <sup>4</sup> , P.Serra <sup>4</sup> <sup>1</sup> Oxford Lasers Ltd., Unit 8 Moorbrook Park, UK <sup>2</sup> Centre for Process Innovation Ltd, Sedgefield, UK <sup>3</sup> Sensofar Tech SL, Terrassa, Catalonia, Spain <sup>4</sup> Universitat de Barcelona, Catalonia, Spain
13:15 – 13:30	To be announced soon	13:15 – 13:30 PROJECT	<b>Laser Digital Micro-Nano fabrication for Organic Electronics and Sensor applications</b> I. Zergioti <i>Physics Department, National Technical University of Athens, Greece</i>

13:30 – 15:00	<b>LUNCH BREAK - NETWORKING</b>
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13:30 – 15:00	<b>POSTER SESSION</b>
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	<b>KEYNOTE</b> Chairs: Dr. K. Fostiropoulos, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany		
15:00 – 15:30 KEYNOTE	<b>Recombination Channels in High-Efficiency Organic Solar Cells</b> Vladimir Dyakonov, Andreas Sperlich, Carsten Deibel Julius-Maximilian University of Würzburg, Institut of Physics, Am Hubland, 97074 Würzburg, Germany		
15:30 – 17:30	<b>Workshop on OPVs I</b> Chair: Dr. K. Fostiropoulos, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany		<b>OLED Displays &amp; Lighting</b> Chairs: Dr. C. Boeffel, Fraunhofer IAP, Germany Prof. S. Grigorian, Institute of Physics, University of Siegen, Germany
15:30 – 16:00 INVITED	<b>CIGS/Organic Single-junction and Tandem Hybrid Solar Cells</b> Manuel Reinhard, Uli Lemmer and Alexander Colsmann Karlsruhe Institute of Technology (KIT), Light Technology Institute, Engesserstrasse 13, 76131 Karlsruhe, Germany	15:30 – 15:45 PROJECT	<b>FP7 Project IM3OLED: Integrated Multi-disciplinary and Multiscale Modeling for Organic Light Emitting Diodes</b> H. Schoo, A. Senes, Holst Centre/TNO Eindhoven, The Netherlands The Netherlands
		15:45 – 16:00	<b>Cadmium-free Quantum Dot Light Emitting Diodes based on Indium Phosphide</b> T. Greco <sup>1</sup> , C. Ippen <sup>1</sup> , A. Wedel <sup>1</sup> <sup>1</sup> Fraunhofer Institute for Applied Polymer Research, Functional Materials and Devices Geiselbergstrasse 69, 14476 Potsdam, Germany
16:00 – 16:15	<b>Energy filtered transmission electron microscopy of the donor/acceptor nanomorphology</b> W. Schindler, G. Chouliaras, M. Wollgarten, K. Fostiropoulos Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Hahn-Meitner-Platz 1, 14109 Berlin, Germany	16:00 – 16:15	<b>Impact of triplet excitons on the lifetime of polymer-based organic light emitting diodes</b> O. Pekkola, A. Gassmann, and H. von Seggern Electronic Materials Division, Institute of Materials Science, Technische Universität Darmstadt Petersenstr. 23, 64287 Darmstadt, Germany
16:15 – 16:30	<b>Photoemission study of the origin of s-shape in inverted OSC: Defect states in TiO<sub>2</sub> x/C60 and AZO/C60 derived from ResPES and SXPS</b> P. Reckers <sup>1</sup> , J. Maibach <sup>1</sup> , S. Trost <sup>2</sup> , K. Zilberman <sup>2</sup> , A. Behrendt <sup>2</sup> , A. Polywka <sup>2</sup> , P. Görrn <sup>2</sup> , T.Riedl <sup>2</sup> [1] Institute of Material Science, Surface Science Division, Darmstadt University of Technology Petersenstraße 32, 64287 Darmstadt, Germany [2] Institute of Electronic Devices, University of Wuppertal, Germany	16:15 – 16:30	<b>Optimization of processing and encapsulation conditions of white OLED devices for decorative lighting applications</b> L. Pereira <sup>1,3</sup> , L. Rino <sup>1,3</sup> <b>M. Ribeiro<sup>2</sup></b> , A. Pinto <sup>2</sup> , A. Marques <sup>2</sup> , J. Gomes <sup>2</sup> <sup>1</sup> University of Aveiro, Department of Physics Campus de Santiago, Portugal <sup>2</sup> CENTI - Centre for Nanotechnology and Smart Materials Rua Fernando Mesquita, Portugal, <sup>3</sup> i3N - Institute for Nanostructures, Nanomodelling and Nanofabrication, Aveiro, Portugal
16:30 – 16:45	<b>Electronics and Photonics: two sciences in the benefit of solar energy conversion</b> M.Girtan Photonics Laboratory, Angers University, Angers, France	16:30 – 16:45	<b>Flexible Hybrid Light Emitting Diodes</b> E. Martinez-Ferrero <sup>1</sup> , A. Quintana <sup>1</sup> CETEMMSA Avda. Ernest Lluch 36, 08302 Mataró, Spain

<b>16:45 – 17:00</b> <b>Spectral technique for efficiency measurement of organic and hybrid solar cells</b> Alexey Gavrik <sup>1</sup> , Vladimir Bruevich <sup>1</sup> , Vasily Trukhanov <sup>1</sup> , Yuri Chernikov <sup>1</sup> and Dmitry Paraschuk <sup>1</sup> <i>Lomonosov Moscow State University, Faculty of Physics and International Laser Center 119991 Moscow, Russia</i>	<b>16:45 – 17:00</b> <b>Electroluminescence from a strongly-coupled organic LED device</b> N.Christogiannis <sup>1</sup> , N. Somaschi <sup>2</sup> , P. Michetti <sup>3</sup> , D.M. Coles <sup>1</sup> , P.G. Savvidis <sup>4</sup> , P.G. Lagoudakis <sup>2</sup> and D.G. Lidsey <sup>1</sup> <sup>1</sup> <i>Department of Physics &amp; Astronomy, University of Sheffield, UK</i> <sup>2</sup> <i>School of Physics &amp; Astronomy, University of Southampton, Southampton, UK</i> <sup>3</sup> <i>Institute of Theoretical Physics and Astrophysics, University of Wurzburg, Germany</i> <sup>4</sup> <i>IESL-FORTH, Heraklion, Crete, Greece</i>
<b>17:00 – 17:15</b> <b>SMARTONICS Project</b> <b>A. Laskarakis, S. Logothetidis</b> <i>Lab for Thin Films, Nanosystems &amp; Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece</i>	<b>17:00 – 17:15</b> <b>Solution processed metal oxide buffer layers for blue phosphorescent small molecule organic light emitting diodes</b> <b>Stefan Höfle, Uli Lemmer and Alexander Colsmann</b> <i>Karlsruhe Institute of Technology (KIT), Light Technology Institute, Engesserstrasse 13, 76131 Karlsruhe, Germany</i>
<b>17:15 – 17:30</b> <b>Nanointerpenetrating Structure of PCDTBT:PC70BM Bulk Heterojunction Solar Cells via Mixed-solvent Vapor Annealing</b> Jiangang Liu, Yanchun Han <i>State Key Lab of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, 5625 Renmin Street, Changchun 130022, P. R. China</i>	<b>17:15 – 17:30</b> <b>Iridium dual emitter organometallic compound: Thermal and structural analysis</b> <b>S. Polosan<sup>1</sup>, I.C. Ciobotaru<sup>1</sup>, C.C. Ciobotaru<sup>2</sup>,</b> <sup>1</sup> <i>National Institute for Materials Physics, Bucharest-Magurele 077125, Romania</i> <sup>2</sup> <i>University "POLITEHNICA" of Bucharest, Calea Victoriei 149, Bucharest, 010072, Romania</i>

<b>17:30 – 18:30</b>	<b>Coffee Break - Posters ISFOE13 &amp; FP7 – Exhibition - Networking</b>
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<b>18:30 - 20:30</b> <b>PLENARY SESSION NANOTEXNOLOGY 2013</b> Introduction: Prof. S. Logothetidis, NANOTEXNOLOGY Chairman	
<b>18:30 – 19:10</b> <b>PLENARY</b> Title to be announced soon <b>ANDREA C. FERRARI</b> <i>Dept. of Engineering, University of Cambridge, UK</i>	
<b>19:10 – 19:50</b> <b>PLENARY</b> Title to be announced soon <b>BUDDY RATNER</b> <i>UWEB, USA</i>	
<b>19:50 – 20:30</b> <b>PLENARY</b> Title to be announced soon <b>GEORGE HADJIOANNOU</b> <i>LCPO, CNRS, France</i>	
<b>20:30</b> <b>NANOTEXNOLOGY 2013 DINNER</b>	

**Wednesday 10 July 2013**

08:00	Registration				
<b>KEYNOTE</b> Chairs: Dr. Jörg Ackermann, CINAM, France Dr. C. Koidis, OET, Greece		Workshop on Commercialization & Entrepreneurship on OLAE I Chairs: Dr. I. Kaisto, VTT, Finland Dr. M. Chachamidou, LTFN, AUTH, Greece			
<b>09:00 – 09:30 KEYNOTE</b>	<b>Injection and Transport in Organic Semiconductors</b> P. de Bruyn <sup>1</sup> , G.A.H. Wetzelar <sup>1</sup> , L.J.A. Koster <sup>1</sup> , D.M. de Leeuw <sup>1,2</sup> and P.W.M. Blom <sup>1,2</sup> <sup>1</sup> Molecular Electronics, Zernike Institute for Advanced Materials, University of Groningen, The Netherlands <sup>2</sup> Max Planck Institute for Polymer Research, Mainz, Germany			09:00 - 09:20	Commercializing OLAE through Entrepreneurial activities & the FP7 COLAE Project M. Chachamidou LTFN, Physics Department, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece
	<b>Workshop on OLAE Materials VI</b> Chairs: Dr. Jörg Ackermann, CINAM, France Dr. C. Koidis, OET, Greece	<b>Workshop on Graphene &amp; Related Materials I</b> Chairs: Prof. K. Porfyrikis, University of Oxford, UK Dr. A. Zurutuza, GRAPHENEA, Spain			
<b>09:30 – 09:45</b>	Contact properties of high-mobility, air-stable, low-voltage organic n-channel transistors based on a naphthalene teracarboxylic diimide R. Rödel <sup>1</sup> , F. Letzkus <sup>2</sup> , T. Zaki <sup>2</sup> , J. N. Burghartz <sup>2</sup> , U. Kraft <sup>1</sup> , U. Zschieschang <sup>1</sup> , K. Kern <sup>1,3</sup> , and H. Klauk <sup>1</sup> <sup>1</sup> Max Planck Institute for Solid State Research, Stuttgart, Germany <sup>2</sup> Institut für Mikroelektronik/IMS CHIPS, Stuttgart, Germany <sup>3</sup> Inst. de Physique de la Matière Condensée, EPFL, Switzerland	<b>09:30 – 10:00 INVITED</b>	Title to be announced soon A. Ferrari Dept. of Engineering, University of Cambridge, UK	09:20 - 09:40	IPRs on OLAE & Legal Aspects on entrepreneurial activities E. Panagiotidou, Lawyer expert in IP Issues Thessaloniki, Greece
<b>09:45 – 10:00</b>	Alternative hybrid nanomaterials for transparent electrodes in plastic electronics M. J. Beliatis, S. Ravi, P. Silva Nanoelectronics Center, AIT Univ. of Surrey, Guilford, UK			09:40 - 10:00	Waiting games around OLAE and the role of demand articulation A. Parandian InnovationFab, The Netherlands
<b>10:00 – 10:15</b>	Deposition of Multiple Layers via Ultrasonic Spray Coating for Use in High Performance Organic Photovoltaic Devices J. Griffin <sup>1</sup> , N. Scarratt <sup>1</sup> , A. Pearson <sup>1</sup> , T. Wang <sup>1</sup> , A. R. Buckley <sup>1</sup> & D. G. Lidsey <sup>1</sup> Department of Physics & Astronomy, University of Sheffield, UK	<b>10:00 – 10:20 INVITED</b>	Molecular Hybrids with Graphenes Jürgen P. Rabe Department of Physics & IRIS Adlershof, Humboldt-Universität zu Berlin, Berlin, Germany	10:00 - 10:20	Novel Technologies Manufacturing Initiation P. Giannoules Executive Business Development, INTECS AG, Boblingen, Germany
<b>10:15 – 10:30</b>	TDK4PE Project Jordi Carrabina Centre d'Accessibilitat i Intel·ligència Ambiental de Catalunya, Spain	<b>10:20 – 10:35</b>	Solution processable transparent conducting tracks by the de-functionalisation of amine functionalised carbon nanotubes J.W. Dear, C Poll, K.T. Lai, M. Shkunov Advanced Technology Institute, Department of Electronic Engineering, University of Surrey, Guildford, Surrey, UK	10:20 - 10:40	Entrepreneurial Ecosystem of OLAE in PrintoCent and VTT in Finland I. Kaisto, R. Rikkola VTT Technical Research Centre of Finland, Oulu, Finland
<b>10:30 – 10:45</b>	To be announced soon	<b>10:35 – 10:50</b>	A Molecular Dynamics Study of Polymer/Graphene Nanocomposites Anastassia N. Rissanou <sup>1,2</sup> , Vagelis Harmandaris <sup>1,2</sup> <sup>1</sup> Department of Applied Mathematics, University of Crete, Heraklion, Crete, Greece. <sup>2</sup> Institute of Applied and Computational Mathematics (IACM), FORTH, Crete, Greece.	10:40 - 11:00	COLAE Feasibility studies, improving the awareness of OLAE technology M. Koetse Holst Centre, The Netherlands
<b>10:45 – 11:00</b>	To be announced soon		Beyond Graphene : Nanoribbons and conjugated polymers C. Ewels, Ph. Wagner, J. J. Adjizian, B. Humbert Institute of Materials, CNRS, University of Nantes, Nantes, France		
		<b>10:50 – 11:10 INVITED</b>			

11:00 – 11:30 | Coffee Break – Posters ISFOE12 & FP7 – Exhibition - Networking

Workshop on OPVs II Chairs: Prof. J. Kallitsis, University of Patras, Greece Dr. A. Colsmann, Karlsruhe Institute of Technology, Germany		Workshop on Graphene & Related Materials II Chairs: Prof. J.P. Rabe, Humboldt-Univers.Berlin, Germany Dr. A. Laskarakis, LTFN, AUTh, Greece		Workshop on Commercialization & Entrepreneurship on OLAE II Chairs: Dr. M. Chachamidou, LTFN, AUTh, Greece	
11:30 – 12:00 INVITED	Title to be announced soon K. Fostiropoulos HZB, Germany	11:30 – 11:50 INVITED	Title to be announced soon K. Teo AIXTRON Ltd. UK	11:30 – 11:50	Experience from a spin off in materials A. Zurutza GRAPHENEAE, Spain
12:00 – 12:30 INVITED	Creating growth and jobs in 2013: the case of Organic PV From Europe to South America G. Kotrotsios <sup>1, 2</sup> , Tiago Alves <sup>2</sup> , G. Nisato <sup>1</sup> , Erika Györvary <sup>1, 2</sup> <sup>1</sup> CSEM SA, Neuchatel Switzerland <sup>2</sup> CSEM Praça Carlos Chagas 49, 2º andar – Lourdes, Brazil	11:50 – 12:10 INVITED	Non-invasive conductance mapping of large-area graphene - A new light on defects Peter Bøggild Department of Micro- and Nanotechnology, Technical University of Denmark, Denmark	11:50 – 12:10	Experience from a start up in OLAE materials & OPV C. Koidis OET, Greece
12:30 – 13:00 INVITED	Solution processed interfacial layers for OPV Jörg Ackermann Centre Interdisciplinaire de Nanoscience de Marseille (CINaM), France	12:10 – 12:30 INVITED	Alignment of N@C60 and its derivatives in host matrices: the road to develop ordered systems for quantum information processing K. Porfyrikis University of Oxford, UK	12:10 – 12:30	Experience from a startup company on advanced nanomanufacturing N. Kehagias NANOTYPOS, Greece
		12:30 – 12:45 INVITED ORAL	Raman studies of graphene at high pressure I. Arvanitidis Dept. of Physics, Aristotle University of Thessaloniki, Greece	12:30 – 12:50	Experience from a start up in Bioelectronics T. Herve Microvitae Technologies, France
13:00 – 13:15	Solution processed inorganic/organic hybrid thin films using zinc oxide nanoparticles and small molecules Paul Mundt <sup>1,2</sup> , Nicole Anderl <sup>2,3</sup> , Heinz von Seggern <sup>1</sup> <sup>1</sup> Electr. Mat. Dept., Inst. Mat. Science, TUDarmstadt, Germany <sup>2</sup> Merck TU Darmstadt - Lab, Eduard-Zintl-Institut für Anorganische und Physikalische Chemie, Darmstadt, Germany <sup>3</sup> Ernst-Berl-Institut für Technische und Makromolekulare Chemie, TU Darmstadt, Germany	12:45 – 13:00	Effect of Post-Treatment Conditions on the Carbide and/or Nitride Phase Formation of Nano Carbon Black Reinforced Hard Chromium Coatings Orkut Sancakoglu <sup>1,2</sup> , Erdal Celik <sup>1,3</sup> , Tevfik Aksoy <sup>1,3</sup> <sup>1</sup> Dokuz Eylul University, Engineering Faculty, Metallurgy and Materials Engineering Department, Buca-Izmir, Turkey. <sup>2</sup> Dokuz Eylul University, The Graduate School of Natural and Applied Sciences, Buca-Izmir, Turkey. <sup>3</sup> Dokuz Eylul University, Center for Production and Applications of Electronic Materials, Buca-Izmir, Turkey	12:50 – 13:10	Experience from a spin off in OPV: Solar Press J. Demello Imperial College London, UK
13:15 – 13:30 PROJECT	PROJECT SUNFLOWER G. Kotrotsios CSEM SA, Jaquet Droz 1, CH-2007, Neuchatel Switzerland	13:00 – 13:20	Deformations of Carbon Nanotubes M. Damnjanović, S. Dmitrović, B. Nikolić, I. Milošević NanoLab, Faculty of Physics, University of Belgrade Studentski trg 12, 11000 Belgrade, Serbia	13:10-13:40	PANEL DISCUSSION ON OPPORTUNITIES & HARDLES ON COMMERCIALIZATION & ENTREPRENEURSHIP ON OLAE

13:30 – 15:00 | Lunch Break - Posters ISFOE13 & FP7 - Networking

13:30 – 15:00 | POSTER SESSION

OTFTs II 15:00 – 17:30 Chairs: Prof. T.D. Anthopoulos, Imperial College London, London, UK Prof. P.W.M. Blom, Max Planck Institute for Polymer Research, Mainz, Germany		15:00 – 17:30		Workshop on Graphene & Related Materials III Chairs: Prof. M. Damnjanović, NanoLab, Faculty of Physics, University of Belgrade, Serbia Dr. C. Ewels, Institute of Materials, CNRS, University of Nantes, France	
15:00 – 15:30 INVITED	Semiconducting Polymers for Organic Transistors and Solar Cells Iain McCulloch Imperial College, London, UK	15:00 – 15:20 INVITED	Title to be announced soon Amaia Zurutza GRAPHENEAE, Spain		
15:30 – 16:00 INVITED	Lisicon© Materials for Organic Electronics; Recent Developments in Printable OTFT Materials Toby Cull, Irina Afonina, David Sparrowe, Tomas Backlund, Rashmi Bhintade, Piotr Wierzchowiec, Stephen Bain, Andromachi Malandraki, Giles Lloyd, Steve Tierney, Mark James and Mark Verrall Merck Chemicals Ltd. Chilworth Technical Centre, University Parkway, Southampton, UK	15:20 – 15:40 INVITED	Title to be announced soon Thomas Weitz BASF SE, Ludwigshafen, Germany		
16:00 – 16:15	Analysis of contact effects in coplanar pentacene high performance thin film transistors M. Rapisarda, A. Valletta, G. Fortunato, L. Mariucci Istituto di Microelettronica e Microsistemi (CNR-IMM), Roma, Italy	15:40 – 16:00 INVITED	Title to be announced soon Tim Booth Department of Micro- and Nanotechnology, Technical University of Denmark, Denmark		
16:15 – 16:30	The dependence of OFET environmental stability on the gate dielectric surface A. Dragoneas, N. Christogiannis, M. Grell Department of Physics and Astronomy, The University of Sheffield, Sheffield, UK	16:00 – 16:15 INVITED ORAL	Spatial Modulation Spectroscopy for imaging and optical properties quantification of individual carbon nanotubes D. Christofilos <sup>1</sup> , J.-C. Blancon <sup>2</sup> , J. Arvanitidis <sup>3</sup> , A. San Miguel <sup>2</sup> , A. Ayari <sup>2</sup> , N. Del Fatti <sup>4</sup> and F. Vallée <sup>4</sup> <sup>1</sup> Physics Division, School of Technology and <sup>3</sup> Physics Department, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece, <sup>2</sup> LPMCN and <sup>4</sup> LASIM FemtoNanoOptics, Université Lyon 1, CNRS, France		
16:30 – 16:45	Title to be announced soon Ch. Pitsalidis, S. Logothetidis	16:30 – 16:45 PROJECT	Characterization of Layer-on-Layer Graphite/Graphene Sheets by Raman Spectroscopy at 976 nm Excitation Wavelength		

	<i>Lab for Thin Films, Nanosystems &amp; Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece</i>		<b>A. Mailian1, M. Mailian2, G. Shmavonyan3</b> Institute for Informatics; 1 P. Sevak str., 0014, Yerevan, Armenia 2 LTX-Credence Armenia
<b>16:45 – 17:00</b>	<b>The influence of gate polymer dielectric material and testing environment on the performance of OTFTs manufactured by vacuum-evaporation in a R2R web-coater</b> Z.Ding <sup>1</sup> , G.A.Abbas <sup>1</sup> , H.E.Assender <sup>1</sup> , D.M.Taylor <sup>2</sup> , E.Patchett <sup>2</sup> , A.Williams <sup>2</sup> , J.Morrison <sup>3</sup> , S.G.Yeates <sup>3</sup> , L.Lin <sup>4</sup> <sup>1</sup> <i>Department of Materials, Oxford University, Parks Road Oxford OX1 3PH UK</i> , <sup>2</sup> <i>School of Electronic Engineering, Bangor University, Bangor LL57 1UT, UK</i> <sup>3</sup> <i>Department of Chemistry, University of Manchester, Manchester M13 9PL, UK</i> <sup>4</sup> <i>School of Chemistry, University of Leeds, Leeds LS2 9JT, UK</i>	<b>16:45 – 17:00</b>	<b>Enlightening on the Effect of Titanium and Tantalum Nitride Buffer Phase Transition on the Carbon Nanotube Growth by chemical vapor deposition</b> <b>B. Bouchet-Fabre1, M. Pinault1, M. Mayne-L'Hermite1, C. Reynaud1, T. Minéa2, M. C. Hugon2, M. Morales2, L. Zagonel3, F. Alvarez3</b> 1 Lab. Francis Perrin, CEA-CNRS, CEA-Saclay, 91191 Gif sur Yvette Cedex, France
<b>17:00 – 17:15</b>	<b>Ion selective response of electrolyte-gated poly(3 hexylthiophene) field effect transistors</b> K. Melzer <sup>1</sup> , A. M. Munzer <sup>1</sup> , E. Jaworska <sup>2</sup> , K. Maksymiuk <sup>2</sup> , A. Michalska <sup>2</sup> , G. Scarpa <sup>1</sup> <sup>1</sup> <i>Technische Universität München, Institute for Nanoelectronics, München, Germany</i> <sup>2</sup> <i>University of Warsaw, Faculty of Chemistry, Warsaw, Poland</i>	<b>17:00 – 17:15</b>	<b>Silicon-Coated Carbon Nanofiber Mat for Anode of Lithium Ion Battery</b> <b>Fei Yao<sup>1,2</sup>, Bing Li<sup>1</sup>, Kangpyo So<sup>1</sup>, Jian Chang<sup>1</sup>, Vu Quoc An<sup>1</sup>, Didier Pribat<sup>1</sup>, Costel Sorin Cojocaru<sup>2</sup>, Hongyan Yue<sup>1</sup>, Sishen Xie<sup>1</sup> and Young Hee Lee<sup>1,*</sup></b> <sup>1</sup> <i>Institute of Basic Science, Center for Integrated Nanostructure Physics, Department of Energy Science, BK21 Physics Division, Sungkyunkwan University, Suwon 440-746, Republic of Korea</i> 2 LPICM CNRS, École polytechnique, Palaiseau 91120, France
<b>17:15 – 17:30</b>	<b>New techniques in laser processing of nano copper conductive tracks for Printed Electronics</b> K. Yu, S. Ings, R Habergham, P Reip, R Dixon <i>Intrinsic Materials Ltd, Cody Technology Park, Ively Road, Farnborough, Hampshire, UK</i>	<b>17:15 – 17:30</b>	<b>High Lubricating Properties of New Re Doped Fullerene-Like MoS<sub>2</sub> Nanoparticles</b> <b>L. Rapoport<sup>1</sup>, R. Tenne<sup>2</sup></b> <sup>1</sup> <i>Holon Institute of Technology, Holon, Israel</i> <sup>2</sup> <i>Weizmann Institute of Science, Rehovot, Israel</i>

<b>17:15 – 18:00</b>	<b>Coffee Break - Posters ISFOE12 &amp; FP7 – Exhibition - Networking</b>
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<b>18:00 – 19:45</b>	<b>Integrated Systems &amp; Sensors</b> Chairs: Dr. C. Koidis, OET, Greece		<b>Workshop on Smart Textiles I</b> Chairs: Prof. L. Van Langenhove, University of Ghent, Belgium
<b>18:00 – 18:30</b> <b>INVITED</b>	<b>Smart devices for healthcare and wellness applications</b> Marc Koetse, Jeroen Schram, Jeroen van den Brand <i>Holst Centre/TNO, P.O. Box 8550, 5605 KN Eindhoven, The Netherlands</i>	<b>18:00 – 18:30</b> <b>INVITED</b>	<b>Active coating materials for smart textile applications</b> Anne Schwarz <sup>1</sup> , Lieva Van Langenhove <sup>2</sup> , Stefan Jockenhoevel <sup>3</sup> <sup>1</sup> <i>RWTH Aachen University - Institute of Textile Technology, Aachen, Germany</i> <sup>2</sup> <i>Ghent University - Department of Textiles, Belgium, Germany</i>
<b>18:30 – 18:45</b>	<b>Introduction of printable materials into the fabrication of self-aligned nanoimprint lithography structured OTFTs</b> T. Rothländer <sup>1</sup> , P. Hüttler <sup>2</sup> , H. Gold <sup>1</sup> , J. Kraxner <sup>3</sup> , W. Grogger <sup>3</sup> , A. Haase <sup>1</sup> , B. Stadlober <sup>1</sup> 1) JOANNEUM RESEARCH, MATERIALS - Institute for Surface Technologies and Photonics, Weiz, Austria 2) Erwin Schrödinger Society for Nanosciences, Institute for Nanoscale Research, Graz, AUSTRIA, 3) Graz Centre for Electron Microscopy, Graz, Austria	<b>18:30 – 19:00</b>	<b>Organic semiconductor based devices for wearable and electronic robotic skin applications</b> P. Cosseddu <sup>1</sup> , A. Loi <sup>1</sup> , S. Lai <sup>1</sup> , J. F. Saenz Cogollo <sup>1</sup> , A. Bonfiglio <sup>1</sup> <i>Department of Electrical and Electronic Engineering, University of Cagliari Piazza d'Armi, Cagliari, Italy</i>
<b>18:45 – 19:00</b>	<b>Printed Electromagnetic Wound Dressing for Chronic Wounds</b> D. Beynon, D. Gethin, T.C. Claypole <i>WCPC, Swansea University College of Engineering, Swansea University, Singleton Park, UK</i>		
<b>19:00 – 19:15</b>	<b>Fully Printed, Flexible Electrochromic Display Based on Tungsten Oxide and Thermosetting Solid State Electrolyte</b> P.J. Wojcik, L. Pereira, R. Martins, E. Fortunato <i>CENIMAT/3N, Departamento de Ciência de Materiais, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa and CEMOP/UNINOVA, Campus da Caparica, 2829-516 Caparica, Portugal</i>	<b>19:00 – 19:15</b>	<b>DEPHOTEX - Development of textile-based solar cells</b> K. Opwis <sup>1</sup> , J.S. Gutmann <sup>1</sup> , E. Leonardi <sup>2</sup> , F. Breuil <sup>3</sup> <sup>1</sup> <i>Deutsches Textilforschungszentrum Nord-West gGmbH, D-47798 Krefeld, Germany</i> , <sup>2</sup> <i>Dyesol Italia, I-00187 Rome, Italy</i> , <sup>3</sup> <i>Fundació Privada Cetemmsa, E-08301 Mataró, Spain, Germany</i>
<b>19:15 – 19:30</b>	<b>Influence of track width on the performance of flexographic printed heaters</b> S.M. Hamlyn, D.T. Gethin, T.C. Claypole <i>College of Engineering, Swansea University, Singleton Park, Swansea, UK</i>	<b>19:15 – 19:30</b>	<b>Applications of Polyvinylidene Fluoride Monofilaments as Sensor Fibres and for Energy Harvesting</b> B. Glauß <sup>1</sup> , W. Steinmann <sup>1</sup> , G. Seide <sup>1</sup> , T. Gries <sup>1</sup> <sup>1</sup> <i>Institut für Textiltechnik der RWTH Aachen (ITA) 52056 Aachen, Germany</i>

## Thursday 11 July 2013

08:00 – 20:00	<b>Registration</b>
<b>KEYNOTE</b>	
09:00 – 09:30 <b>KEYNOTE</b>	Vapor printed polymer electrodes for fabricated devices on paper substrates K.K. Gleason Department of Chemical Engineering, MIT 77 Massachusetts Avenue, Cambridge, USA
09:30 – 11:00	<b>Workshop on Manufacturing &amp; Digital Fabrication for Industrial Applications I</b> Chairs: Dr. N. Meyer, AIXTRON SE, Germany Dr. D. Lenoble, Centre de Recherche Public Gabriel Lippmann, Luxembourg
09:30 – 10:00 <b>INVITED</b>	Title to be announced soon Peter Baumann AIXTRON SE, Germany
10:00 – 10:30 <b>INVITED</b>	Title to be announced soon Thomas Götz MBRAUN, Germany
10:30 – 11:00 <b>INVITED</b>	Printing versus coating technologies - In which direction the future production technologies for printed electronic is going? Andrea Glawe KROENERT GmbH & Co KG Hamburg, Germany
11:00 – 11:30 <b>Coffee Break – Posters ISFOE13 &amp; FP7 – Exhibition - Networking</b>	
<b>Workshop on Manufacturing &amp; Digital Fabrication for Industrial Applications II</b> Chair: Dr. N. Kechagias, NANOTYPOS, Thessaloniki, Greece Dr. P. Baumann, AIXTRON SE, Germany	
11:30-12:00 <b>INVITED</b>	Vapour Phase Processing of organic materials: review and perspectives to overcome the current performance limitations D. Lenoble, K. Menguelti, B.R. Pistillo Centre de Recherche Public Gabriel Lippmann - Nanomaterials Research Unit 41, Luxembourg
12:00-12:30 <b>INVITED</b>	Title to be announced soon Reinhard R. Baumann Chemnitz University of Technology, Germany
12:30 – 13:00 <b>INVITED</b>	Microfluidic Routes to the Controlled Synthesis of Electronic Materials J. de Mello, J. Bannock, M. Heeney3 Department of Chemistry, Imperial College London, Exhibition Road, South Kensington, London SW7 2AY, UK
Joined Session of ISFOE13 and W3 – Nanomedicine & W4 - Bioelectronics of NN13 <b>Workshop on Bioelectronics II</b> Chair: to be announced soon	
11:30-12:00 <b>INVITED</b>	In vivo recordings of brain activity using organic transistors Dion Khodagholy1, Thomas Doublet1,2,3,4, Moshe Gurfinkel1, Pierre Leleux1,2,3,4, Pascale Quilichini2,3, Antoine Ghoshem2,3, Esma Ismailova1, Thierry Herve4, Sébastien Sanaur1, George G. Malliaras1 & Christophe Bernard2,3 2 Aix Marseille Université, INS, France. 3 InsermMarseille, France.
12:00 – 12:15	Title to be announced soon E. Georgarakis, S. Logothetidis LTFN, Physics Department, Aristotle University of Thessaloniki, Greece
12:15 – 12:30	Biocompatible biosensor for tear glucose monitoring with Soft-MEMS techniques M.K. Chu, K. Mizuno, K. Miyajima, T. Arakawa, K. Mitsubayashi Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University Tokyo, Japan
12:30 – 12:45	Utilisation of SU-8 Polymer for Micro-Nano-Biosensor Applications S.D. Psoma1, P.D. van der Wal2, N.F. de Rooij2 1, University of Western Macedonia, Kozani, Greece. 2Institute, Ecole Polytechnique Fédérale de Lausanne (EPFL), Neuchâtel, Switzerland.
12:45 – 13:05 <b>INVITED ORAL</b>	Polymer technologies & electrophysiological data acquisition T. Herve Microvitae Technologies, France

13:00 – 13:30	Production methods for large area electronics Thomas Kolbusch <i>Coatema, Germany</i>	13:05 – 13:20	Fabrication of flexible zinc oxide nanowire sensors using roll-to-roll printing C.M.Fung1, J.S.Lloyd1, K.S.Teng1 , Davide Deganello2 1Multidisciplinary Nanotechnology Centre, College of Engineering, Swansea University, SA28PP, UK, 2Welsh Centre for Printing and Coating, College of Engineering, Swansea University, SA2 8PP, UK
13:30 – 13:45 PROJECT	Pilot-scale hybrid roll to roll/sheet to sheet manufacturing chain for flexible OLEDs (EU FP7 Flex-o-Fab Project) Flora Li Holst Centre / TNO High Tech Campus 31, 5656 AE, Eindhoven, The Netherlands	13:20 – 13:50	'BIOELECTRONICS TARGET CLINICAL PRACTICE', co-organized by Rolemak Project FP7-REGPOT-2011-1 G.Malliaras, R.Owens, V.Karakiozaki, C.Bernard, G.Scarpa, I.Missirlis

13:30 – 15:00	Lunch Break - Posters ISFOE12 & FP7 - Networking
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15:00 – 17:30 PROJECT	Workshop on Manufacturing & Digital Fabrication for Industrial Applications III Chairs: Prof. J. de Mello, Imperial College London, UK Dr. A. Laskarakis, <i>LTFN, AUTH, Greece</i>	15:00 – 17:30 INVITED	Workshop on Smart Textiles II Chairs: Prof. A. Schwarz, <i>RWTH Aachen University, Germany</i>	15:30 – 16:25 INVITED ORAL	Joined Session of ISFOE13 and W3 – Nanomedicine & W4 - Bioelectronics of NN13 Workshop on Bioelectronics III Chairs: to be announced
15:00 – 15:30 INVITED	Title to be announced soon CHRISTINE BOEFFEL <i>Fraunhofer IAP, Germany</i>	15:00 – 15:30 INVITED	Smart textiles and flexible organic electronics L. Van Langenhove, L. Rambausek, C. Hertleer <i>Department of Textiles, Ghent University Ghent, Belgium</i>	15:30 – 15:50 INVITED ORAL	Natural and nature-inspired Hydrogen-bonded Semiconductors: A Change of Paradigm for Organic Electronics Mihai Irimia-Vladu <i>Joanneum Research Forschungsgesellschaft mbH, Weiz, Austria</i>
15:30 – 15:45	Robust determination of blend composition of roll-to-roll printed nanolayers for the improvement of OPV efficiency S. Logothetidis, C. Koidis, D. Georgiou, Ch. Kapnopoulos, A. Laskarakis <i>LTFN, Physics Department, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece</i>	15:30 – 15:50 INVITED	Strategies toward Stabilization of the Nano-Morphology of the Active Layer in Bulk Heterojunction Organic Solar Cells D. Vanderzande1,2, S. Bertho1, B. Campo1, J.Vandenbergh1, F. Piersimoni1, W. Mae1, J. Manca1,2, L.Lutsen2 <i>1University of Hasselt, Institute of Material Research, Agoralaan Bld. D, B-3590 Diepenbeek, Belgium, 2IMEC vzw, imomec, Wetenschapspark 1, B-3590 Diepenbeek, Belgium</i>	15:30 – 15:50 INVITED ORAL	Solid-State Electrochemiluminescence Detection of L-proline Based Ru-AuNPs Signal Amplification Labels Shenguang Ge, Mei Yan, Jinghua Yu <i>Key Laboratory of Chemical Sensing &amp; Analysis in Universities of Shandong, University of Jinan, P.R. China</i>
15:45 – 16:00 PROJECT	Clean4Yield Contamination and defect control for increased yield for large scale R2R production of OPV and OLED J. Gabel <i>Holst Centre / TNO High Tech Campus 31, Eindhoven, The Netherlands</i>	15:50 – 16:10 INVITED	Title to be announced soon Marco Stella <i>Cetemmsa, Spain</i>	15:50 – 16:10 INVITED ORAL	Spray-deposited CNT-based sensing devices G.Scarpa <i>Technische Universität München, Germany</i>
16:00 – 16:30 INVITED	Advanced nanomanufacturing: from parallel to continuous processing T. Tachtsidis, K. Kechagias, <b>N. Kechagias</b> <i>NANOTYPOS, Thessaloniki, Greece</i>	16:10 – 16:30 INVITED	Smart materials in textiles: a Bi/tri-component fibres approach M. Ribeiro, A. Ribeiro, N. Durães, N. Cardoso, J. Branquinho, C. Silva, J.Gomes <i>CeNTI, Centre for Nanotechn. &amp; Smart Materials, Portugal</i>	16:10-16:25	Integrating diamondoids with DNA for biosensing applications Ganesh Sivaraman and Maria Fytia <i>Institute for Computational Physics, University of Stuttgart Allmandring 3, 70569, Stuttgart, Germany</i>
16:30 – 16:45	Developing manufacturing solutions using printing technology for energy capture, storage and use in the build environment Tim C. Claypole, Eifion H.Jewell and David A. Worsley <i>College of Engineering, Swansea University, UK</i>	16:30 – 16:50 INVITED	Title to be announced soon Georgios Priniotakis <i>Technological Education Institute of Piraeus, Department of Textile Engineering, Athens, Greece</i>	16:25-16:40	
16:45 – 17:00	Metrology systems for optical in-line process control for the thin film coating of OPV and OLED H. Oerley <i>Dr. Schenk GmbH, Munich, Germany</i>	16:50 – 17:10 INVITED	Organic semiconductor devices on fiber-shaped structures for smart textile applications T. Könyves-Toth1, A. Gassmann1, H. von Seggern1 <i>1Electronic Materials Department, Institute of Materials Science, Technische Universität Darmstadt Darmstadt, Germany</i>		
17:00 – 17:15	Reacting Thick-Film Nano-Copper Conductive Inks with Photonic Curing S. Farnsworth, V. Akhavan, K. Schroder, D. Pope, I. Rawson 1 NovaCentrix 200-B Parker Dr, Suite 580, Austin, TX, USA	17:10 – 17:25	Textile based dye-sensitized solar cells S. Sensfuss1, G. Nazmutdinova1, H. Schache1, M. Beu2, J. Falgenhauer2, M. Rudolph2, D. Schlettwein2, Y. Zimmermann3, A. Neudeck3, Y. C. Celik4, F. Endres4 <i>1 Thuringian Institute for Textiles and Plastics Research, Dep. Functional Polymer Systems and Physical Research, Germany 2 Justus-Liebig-University Giessen, Institute of Applied Physics, Giessen, Germany 3 Textile Research Institute Thuringia-Vogtland, Germany 4 Clausthal Univ. of Technology, Inst. Electrochemistry, Germany</i>		
17:15 – 17:30	The effect of engagement on the conductivity of fine lines printed by flexography Tim C. Claypole, David T. Gethin, Simon M. Hamblin, Davide Deganello and James M. Claypole <i>Welsh Centre for Printing and Coating, Swansea University, Singleton Park, Swansea, SA2 8PP, UK</i>				

<b>17:15 – 18:00</b>	Coffee Break - Posters ISFOE12 & FP7 – Exhibition - Networking
<b>18:00 – 19:30</b>	<b>Workshop on Manufacturing &amp; Digital Fabrication for Industrial Applications IV</b> Chairs: Thomas Kolbusch, Coatema, Germany and Dr. Michael Potstada, Innovation Lab, The Netherlands
<b>18:00 – 18:20</b>	Diginova, an overview on digital fabrication A. Parandian Innovation Lab, The Netherlands
<b>18:20 – 18:40</b>	Digital Printing: getting the basics Reinhard R. Baumann Chemnitz University of Technology, Germany
<b>18:40 – 19:00</b>	3D Printing, the edge of a new technology revolution To be announced soon
<b>19:00 – 20:00</b>	<b>PANEL DISCUSSION AND BRAIN STORMING DISCUSSION – QUO VADIS – ADDITIVE MANUFACTURING AND 3D PRINTING</b> Young Researcher Award for Best Oral and Best Poster Presentations Closing Remarks and Discussion End of ISFOE13
<b>20:00 – 20:30</b>	