

**3rd International Symposium on Flexible Organic Electronics (IS-FOE10)  
6-9 July 2010, Eagles Palace Hotel, Halkidiki, Greece**

**Program**

**Tuesday 6 July 2010**

<b>17:00 – 20:00</b>	<b>Registration</b>
<b>18:00 – 18:20</b>	<b>"Welcome and Opening Remarks"</b> S. Logothetidis <i>IS-FOE Chairman</i>
<b>Special Session: "Strategy of Europe, USA and Asia in Organic Electronics" Part I</b> Chairs: <b>G. Hadziioannou</b> , Laboratoire de Chimie des Polymères Organiques (LCPO) ENSCBP/CNRS, France <b>J. Kallitsis</b> , Department of Chemistry, University of Patras, Patras, Greece	
<b>18:20 – 18:40</b>	<b>"FP7 Project OPERA: For the Future of Organic &amp; Large Area Electronics in Europe"</b> Ed van den Kieboom <i>Plastic Electronics Foundation, The Netherlands</i>
<b>18:40 – 19:00</b>	<b>"Supporting the European OLAE Community by the NoEs PolyNet and FlexNet"</b> Lars Heinze <i>Senior Consultant, VDI/VDE Innovation + Technik GmbH, Germany</i>
<b>19:00 – 19:20</b>	<b>"FP7 Project OLAtronics"</b> Sergios Logothetidis <i>Physics Department, Aristotle University of Thessaloniki, Greece</i>
<b>19:20 – 19:40</b>	<b>"Flexible autonomous cost efficient energy source and storage – FACESS project"</b> Jukka Hast <i>VTT Technical Research Centre, Finland</i>
<b>19:40 – 20:00</b>	<b>"FP7 Project Fast2light"</b> Gerwin Gelinck <i>Holst centre/TNO, The Netherlands</i>
<b>21:00</b>	<b>End of 1<sup>st</sup> Day</b> <b>IS-FOE10 Welcome Reception</b>

## Wednesday 7 July 2010

08:00 – 20:00 Registration

### SESSION: Organic electronic materials (Part I)

Chairs: J. Hast, VTT Technical Research Centre, Finland

J. Ulanski, Department of Molecular Physics, Technical University of Lodz, Poland

09:00 – 09:30 **Nano-morphology and charge photo-generation in Si-PCPDTBT and C-PCPDTBT bulk heterojunctions using fullerene acceptors**

INVITED

Mauro Morana<sup>1</sup>, Hamed Azimi<sup>1,4</sup>, Gilles Dennler<sup>2</sup>, H.-J. Egelhaaf<sup>3</sup>, Markus Scharber<sup>1</sup>, Karen Forberich<sup>2</sup>, Jens Hauch<sup>3</sup>, Xiaobo Shi, Russel Gaudiana<sup>2</sup>, David Waller<sup>2</sup>, Zenghuo Zhu<sup>2</sup>, Kurt Hingerl<sup>4</sup>, Svetlana S. van Bavel<sup>5</sup>, Joachim Loos<sup>5</sup> and Christoph J. Brabec<sup>6</sup>

<sup>1</sup> Konarka Austria, Altenbergerstrasse 69, 4040 Linz, Austria

<sup>2</sup> Konarka Technologies Inc. Boott Mill South, 116 John Street, Suite 12, Lowell, MA 01852, USA

<sup>3</sup> Konarka Technologies GmbH, Landgrabenstr. 94, 90443 Nürnberg, Germany

<sup>4</sup> Christian Doppler Laboratory for Surface Optics, Johannes Kepler University, Linz, Austria

<sup>5</sup> Laboratory of Materials and Interface Chemistry and Soft Matter CryoTEM Research Unit, Eindhoven University of Technology, PO Box 513, NL-5600 MB Eindhoven, The Netherlands <sup>6</sup> Friedrich-Alexander-University, Martensstraße 7, 91058 Erlangen, Germany

09:30 – 09:50 **"Distribution of charge carrier traps at the band gap edges in MDMO-PPV"**

V. Kazukauskas, M. Pranaitis, A. Arlauskas

Semiconductor Physics Dept. and Institute of Applied Research of Vilnius University, Vilnius, Lithuania

09:50 – 10:10 **"Innovative Materials and Applications based on Poly(3,4-ethylenedioxythiophene) and Ionic Liquids"**

R. Marcilla, M. Döbbelin, C. Pozo-Gonzalo, D. Mecerreyes

New Materials Department, CIDETEC, Centre for Electrochemical Technologies, Parque Tecnológico de San Sebastián, Donostia-San Sebastián, Spain

10:10 – 10:30 **"Multilayered polymer organization for organic photovoltaic cells"**

A. Nourdine, I. Perrin, I. Flandin, N.D. Alberola

LMOPS, Laboratoire Matériaux Organiques à Propriétés Spécifiques, Université de Savoie Bâtiment IUT Savoie, Le Bourget Du Lac, France

10:30 – 10:50 **"Plasmonic composites of semiconductive polymers and metal nanoparticles"**

J. Pflieger<sup>1</sup>, S. Kazim<sup>1</sup>, A. Sharf<sup>1</sup>, M. Bondarev<sup>2</sup>, J. Vohlidal<sup>2</sup>

<sup>1</sup> Department of Polymer Materials, Institute of Macromolecular Chemistry, Prague, Czech Republic

<sup>2</sup> Charles University in Prague, Faculty of Sciences, Prague, Czech Republic

10:50 – 11:20 **Coffee Break - Posters - Exhibition - Networking**

### SESSION: Organic, inorganic and hybrid materials and systems

Chair: L. Heinze, VDI/VDE Innovation + Technik GmbH, Germany

11:20 – 11:50 **"Electron accepting materials based on different semiconducting quinoline monomers, polymers and CNT hybrids"**

INVITED

A. Stefopoulos<sup>1,3</sup>, S. Kourkoulis<sup>1,3</sup>, S. Economopoulos<sup>4</sup>, F. Ravani<sup>3</sup>, K. Andreopoulou<sup>1</sup>, K. Papagelis<sup>2</sup>, A. Siokou<sup>3</sup>, J. Kallitsis<sup>1,3</sup>

<sup>1</sup> Department of Chemistry and <sup>2</sup> Department of Materials Science, University of Patras, Patras, Greece

<sup>3</sup> Foundation for Research and Technology Hellas, Institute of Chemical Engineering and High Temperature Processes (FORTH-ICEHT), Patras, Greece.

<sup>4</sup> Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

11:50 – 12:20 **"Integrated Smart Systems for automotive market"**

INVITED

Nello Li Pira

Advanced Manufacturing and Materials, FIAT Research Centre, Italy

12:20 – 12:40 **"Silicon nanowire based electrical devices on flexible substrate: From transistors to gas sensors"**

C. Celle, A. Carella, J.P. Simonato

CEA-Grenoble, LITEN/DTNM/LCRE 17, rue des Martyrs 38054 Grenoble Cedex 9, France

12:40 – 13:00 **"Engineering organic crystal morphologies with azeotropic mixtures"**

R. Z. Rogowski, A. A. Darhuber

Mesoscopic Transport Phenomena Group, Eindhoven University of Technology, Eindhoven, The Netherlands

13:00 – 13:20 **"Novel  $\pi$ -Functional Organic Semiconducting Materials: Design, Synthesis, Characterization and Device Performance"**

P. Sonar

Institute of Materials Research and Engineering (IMRE) Agency for Science, Technology and Research (A\*STAR) Singapore

13:20 – 13:40	<p><b>"Growth and performance of polycrystalline <math>\alpha</math>-Sexi-thiophene thin films deposited by Supersonic Molecular Beam Deposition"</b>  M. Tonezzer, T. Toccoli, S. Gottardi  <i>IFN-CNR Divisione di Trento via alla Cascata, Povo Trento, Italy</i></p>
13:40 – 15:30	<b>Lunch Break - Networking</b>
<b>Session: Organic electronic materials (Part II)</b>	
<b>Chair: Nello Li Pira</b> , <i>Advanced Manufacturing and Materials, FIAT Research Centre, Italy</i>	
15:20 – 15:50 INVITED	<p><b>"Layered Distribution of Charge Carriers in Organic Thin Film Transistors"</b>  A. Shehu,<sup>1,2</sup> S. D. Quiroga,<sup>1</sup> P. D'Angelo,<sup>1</sup> C. Albonetti,<sup>1</sup> F. Borgatti,<sup>1</sup> M. Murgia,<sup>1</sup> A. Scorzoni,<sup>2</sup>  P. Stoliar,<sup>1</sup> and F. Biscarini<sup>1</sup>  <i>1Consiglio Nazionale delle Ricerche-Istituto per lo Studio dei Materiali Nanostrutturati (ISMN), via P. Gobetti 101, 40129 Bologna, Italy</i>  <i>2Universita` di Perugia-Dipartimento di Ingegneria Elettronica e dell'Informazione (DIEI), Via G. Duranti 93, I-06125 Perugia, Italy</i></p>
15:50 – 16:10	<p><b>"Broadband impedance spectroscopy of organic semiconductors"</b>  K. Kisiel, J. Jung, <u>J. Ulanski</u>  <i>Department of Molecular Physics, Technical University of Lodz, Zeromskiego str. 116, 90-924 Lodz, Poland</i></p>
16:10 – 16:30	<p><b>"The role of perpendicular and parallel momentum in early stages of pentacene growth with SuMBD"</b>  M. Tonezzer, T. Toccoli, S. Gottardi  <i>IFN-CNR Divisione di Trento via alla Cascata, Povo Trento, Italy</i></p>
<b>Special Session: Strategy of Europe, USA and Asia in Organic Electronics (Part II)</b>	
<b>Chair: Ed van den Kieboom</b> , <i>Plastic Electronics Foundation, The Netherlands</i>	
16:30 – 16:45	<p><b>"POLARIC: Printable, Organic and Large-Area Realisation of Integrated Circuits"</b>  Joachim Steinke  <i>Imperial College London, UK</i></p>
16:45 – 17:00	<p><b>"FP7 Project INGENIOUS"</b>  Iryna Yakimets  <i>Holst centre/TNO, The Netherlands</i></p>
17:00 – 17:15	<p><b>"FP7 Project: Embedded organic memory arrays (MOMA)"</b>  Gerwin Gelinck  <i>Holst centre/TNO, The Netherlands</i></p>
17:15 – 17:30	<p><b>"FP7 Project PRIAM"</b>  Nello Li Pira  <i>Advanced Manufacturing and Materials, FIAT Research Centre, Italy</i></p>
17:30 – 18:00	<p><b>"Flexible, Organic &amp; Large Area Electronics in the EU. Where do we stand and Where do we go?"</b>  Marc Boukerche  <i>Large Area &amp; Organic Electronics; Display Systems, European Commission, Belgium</i></p>
18:00	<b>End of 1<sup>st</sup> Day</b>

## Thursday 8 July 2010

### SESSION: Organic electronic materials (Part III)

Chairs: J. Kallitsis, Department of Chemistry, University of Patras, Patras, Greece

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| 09:00 – 09:30<br>INVITED | <b>"A Bottom-Up Approach to Nanoscience and Nanotechnology: Micro- ,Nano- Structuring of Functional Polymer Materials Via Manipulation of the Self-Organization Process of Polymer Blends and Block Copolymers"</b><br>George Hadziioannou<br><i>Institut Universitaire de France, Chaire Arkema/Région Aquitaine, Matériaux fonctionnels avancés pour les nouvelles technologies de l'information, de la communication et de l'énergie,<br/>Laboratoire de Chimie des Polymères Organiques (LCPO) - UMR5629, Université Bordeaux 1 / Institut Polytechnique de Bordeaux (ENSCBP) / CNRS, France</i> |
| 09:30 – 10:00<br>INVITED | <b>"OFET Sensors and Biosensors: overview of recent developments"</b><br>Luisa Torsi<br><i>Università Degli Studi Di Bari, Italy</i>   |
| 10:00 – 10:20            | <b>"Island nucleation of oligophenylene molecules on amorphous surfaces"</b><br>S. Lorbeck <sup>1</sup> , T. Potocar <sup>2</sup> , G. Hlawacek <sup>1</sup> , A. Winkler <sup>2</sup> , C. Teichert <sup>1</sup><br><sup>1</sup> <i>Institute of Physics, University of Leoben, Austria</i><br><sup>2</sup> <i>Institute of Solid State Physics, Graz University of Technologies, Austria</i>   |

### Special Session: Strategy of Europe, USA and Asia in Organic Electronics (Part III)

Chair: G. Hadziioannou, Laboratoire de Chimie des Polymères Organiques (LCPO) ENSCBP/CNRS, France

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| 10:20 – 10:50 | <b>OLED in Taiwan</b><br>J. Jou<br><i>Department of Materials Science and Engineering<br/>National Tsing-Hua University, Hsin-chu, Taiwan 30013, ROC</i>                   |
| 10:50 – 11:20 | <b>Strategy of Organic Electronics in USA</b><br>G. Malliaras<br><i>Centre Microélectronique de Provence Ecole Nationale Supérieure des Mines de Saint Etienne, France</i> |
| 11:20 – 11:50 | <b>Coffee Break - Posters - Exhibition - Networking</b>  |

### SESSION: Flexible substrates, encapsulation methods & materials

Chairs: Armin Wedel, Fraunhofer-Institut für Angewandte Polymerforschung, Germany

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| 11:50 – 12:20<br>INVITED | <b>"Cost Effective Production of High Barrier Materials for Encapsulation of Flexible Organic Electronics"</b><br>E. Kucukpinar <sup>1</sup> , M.M. Schmidt <sup>1</sup> , C. Boeffel <sup>2</sup> , U. Weber <sup>3</sup> , S. Amberg-Schwab <sup>3</sup> , W. Lohwasser <sup>4</sup> , K. Noller <sup>1</sup><br><sup>1</sup> <i>Fraunhofer Institute for Process Engineering and Packaging, Freising, Germany</i><br><sup>2</sup> <i>Fraunhofer Institute for Applied Polymer Research, Potsdam, Germany</i><br><sup>3</sup> <i>Fraunhofer Institute for Silicate Research, Würzburg, Germany</i><br><sup>4</sup> <i>Arcor Flexibles, Neuhausen, Switzerland</i> |
| 12:20 – 12:40            | <b>"Gas-barrier properties of multilayer structures: An all-wet process towards low cost solar cells encapsulation"</b><br>A. Morlier <sup>1</sup> , S. Cros <sup>2</sup> , N.D. Alberola <sup>1</sup><br><sup>1</sup> <i>INES-RDI LMOPS, UMR CNRS-Uds, Le Bourget du lac, France</i><br><sup>2</sup> <i>INES-RDI CEA DRT/LITEN/DTS/LCP, Le Bourget du lac, France</i>  |
| 12:40 – 13:00            | <b>"Reliability of Organic Field Effect Transistors on flexible substrate: Mechanical behaviour"</b><br>B. Ben Said <sup>1,2</sup> , X. Boddaert <sup>1</sup> , P. Benaben <sup>1</sup> , R. Gwoziecki <sup>2</sup> , R. Coppard <sup>2</sup><br><sup>1</sup> <i>Ecole des Mines de St-Etienne, CMP-GC, Dept., Gardanne, France</i><br><sup>2</sup> <i>CEA-LITEN, Laboratoire des Composants Imprimés, Grenoble, France</i>   |
| 13:00 – 13:20            | <b>"Impact of mechanical bending on ZnO and IGZO TFTs"</b><br>K. H. Cherenack, N. Münzenrieder, G. Tröster<br><i>Institute for Electronics, Swiss Federal Institute for Technology, Zürich, Switzerland</i>   |
| 13:20 – 13:40            | <b>"The Ellipsometry Porosimetry used to characterize the density and size of pores and the permeability of barrier layers"</b><br>J.L. Stehle, A. Bourgeois, J.Ph. Piel<br><i>SOPRALAB, 55 Avenue de l'Europe, 92400 Courbevoie, France</i>  |
| 13:40 – 15:30            | <b>Lunch Break - Posters - Networking</b>   |

### SESSION: Theory & modelling (materials, components and devices)

Chair: J. Ulanski, Department of Molecular Physics, Technical University of Lodz, Poland

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| 15:30 – 15:50 | <b>"Point defects and impurities in C60 crystals: carrier traps, polymerization, and nanomagnetism"</b> |
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	<p><u>Leonidas Tsetseris</u><sup>1,2</sup>, Sokrates T. Pantelides<sup>2,3</sup>  <sup>1</sup> Department of Physics, National Technical University of Athens, Athens, Greece  <sup>2</sup> Department of Physics and Astronomy, Vanderbilt University, Nashville, TN, USA  <sup>3</sup> Oak Ridge National Laboratory, Oak Ridge, TN, USA</p>
15:50 – 16:10	<p><b>“Determining the Optimal Length of a Solar Cell using an Area Dependent Simulation Model”</b>  M. Sams, C. Lackner, T. Ostermann  RIIC – Institute for Integrated Circuits, Johannes Kepler University Linz, Linz, Austria</p>
16:10 – 16:30	<p><b>“Thin film structure of pentacene derivatives probed using Raman spectroscopy”</b>  D. T. James<sup>1</sup>, C. Combe<sup>2</sup>, I. McCulloch<sup>2</sup>, J.-S. Kim<sup>1</sup>  <sup>1</sup>Department of Physics, Imperial College, London, UK  <sup>2</sup>Department of Chemistry, Imperial College, London, UK</p>
<p><b>SESSION: Manufacturing (printing, vacuum, chemical) &amp; quality control processes</b>  <b>Chairs: L. Torsi</b>, Universita Degli Studi Di Bari, Italy  <b>A. Lymberis</b>, European Commission, Information Society &amp; Media Directorate-General Micro Systems, Belgium</p>	
16:30 – 16:50 INVITED	<p><b>“Production technologies for large area printed flexible electronics”</b>  Thomas Kolbusch  Coatema Coating Machinery GmbH, Germany</p>
16:50 – 17:10 INVITED	<p><b>“OVPD® Technology for Organic Electronics”</b>  <u>N.Meyer</u>, D.Keiper, M.Schwambers, M.Gersdorff, M.Kunat, M.Heuken  AIXTRON AG, Kaiserstr. 98, 52134 Herzogenrath, Germany</p>
17:10 – 17:30	<p><b>“In-line high quality control of Organic Semiconductor by Spectroscopic Ellipsometry”</b>  D. Cattelan  HORIBA Jobin Yvon S.A.S. France</p>
17:30 – 17:50	<p><b>Coffee Break - Exhibition - Posters - Networking</b></p>
17:50 – 18:10	<p><b>“In-Line optical investigation of thickness and optical properties of r2r flexible substrates, electrodes &amp; barrier materials”</b>  D. Georgiou, N. Kalfagiannis, C. Koidis, A. Laskarakis, M. Chatzidis, S. Logothetidis  Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</p>
18:10 – 18:30	<p><b>“Fast dynamic Near infra red Mueller Matrix Ellipsometry: Switching of liquid crystals, stress-imaging of strained materials”</b>  M. Kildemo, L.M. Sandvik Aas, P. G. Ellingsen  Department of Physics, NTNU, Realfagbygget NTNU 7491 Trondheim, Norway</p>
18:30 – 18:50	<p><b>“In situ real time SE analysis of the drying of organic blend for Organic Electronics”</b>  J.L. Stehle, C. Walsh<sup>1</sup>, B. Schmidt-Hansberg<sup>2</sup>, Xavier Schimowski<sup>1</sup>, J.Ph. Piel<sup>1</sup>  (1) SOPRALAB, 55 Avenue de l'Europe, Courbevoie, 92400, France;  (2) Karlsruhe Institute of Technology, Thin Film Technology, D76131 Karlsruhe, Germany</p>
18:50 – 19:10	<p><b>Nanomechanical properties, morphology and structure of thermal annealed P3HT:PCBM thin films</b>  P.G. Karagiannidis, S. Kassavetis, C. Pitsalidis and S. Logothetidis  Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</p>
19:10 – 19:30	<p><b>“Effect of e-beam curing conditions of vacuum evaporated polymeric gate dielectric on the performance of pentacene-based thin film transistors”</b>  G. Abbas, H. Assender, K. Malik  Department of Materials, University of Oxford, Oxford, UK</p>
19:30 – 20:30	<p><b>Poster Session – Exhibition - Networking</b></p>
19:30 – 20:30	<p><b>Thematic Research Network “NANONET”: Meeting of Organic Electronics Cluster (Room “Theodora A”)</b></p>
21:00	<p><b>IS-FOE10 Dinner</b></p>

## Friday 9 July 2010

### SESSION 8: Flexible solar cells, displays & batteries

**Chairs:** G. Malliaras, Centre Microélectronique de Provence Ecole Nationale Supérieure des Mines de Saint Etienne, France  
A. Laskarakis, Aristotle University of Thessaloniki, Greece

09:00 – 09:30 INVITED	<b>"Ink-Jet printing of active and passive layers for organic electronic devices"</b> A. Wedel, B. Fischer, S. Kreissl, A. Lange, C. Boeffel <i>Fraunhofer-Institute for Applied Polymer Research, Geiselbergstrasse 69, D-14476 Potsdam, Germany</i>
09:30 – 09:50	<b>"Improved efficiency of hybrid solar cells based on non ligand-exchanged CdSe quantum dots and poly(3-hexylthiophene)"</b> Y. Zhou, M. Eck, F. S. Riehle, Y. Yuan, G. Urban, M. Krüger <i>Freiburg Materials Research Centre (FMF), University of Freiburg, Germany</i>
09:50 – 10:10	<b>"Indium doped zinc oxide nanoparticles as n-doped buffer layer in organic solar cells"</b> A. Puetz, T. Stubhan, M. Reinhard, O. Loesch, A. Colsmann, E. Hammarberg, S. Wolf, C. Feldmann, U. Lemmer <i>Karlsruhe Institute of Technology, Light Technology Institute, Institute of Inorganic Chemistry, Karlsruhe, Germany</i>
10:10 – 10:30	<b>"Investigation of a perylene based n-type polymer as electron acceptor in bulk-heterojunction solar cells"</b> Alessia Senes <sup>1</sup> , Diego Bagnis <sup>1</sup> , Peter Kutka <sup>2</sup> , Erika Kozma <sup>3</sup> , Silvia Luzzati <sup>3</sup> , Marinella Catellani <sup>3</sup> Mauro Morana <sup>1</sup> , Markus Scharber <sup>1</sup> <sup>1</sup> Konarka Austria, Altenbergerstrasse 69, A-4040 Linz, Austria <sup>2</sup> Konarka Technologies GmbH, Landgrabenstrasse 94, D-90443 Nürnberg, Germany <sup>3</sup> Istituto per lo Studio delle Macromolecole-CNR, via Bassini 15, 20133 Milano, Italy
10:30 – 10:50	<b>"Polymer solar cells with power conversion efficiencies approaching 6%"</b> A. Colsmann, A. Pütz, M. Klein, M. Reinhard, J. Czolk, C. Kayser, U. Lemmer <i>Light Technology Institute, Karlsruhe Institute of Technology, Karlsruhe, Germany</i>
10:50 – 11:10	<b>"Printed Li-ion Thin Film Batteries: Strategy of development for the electrolytic membrane"</b> H. Rouault, A. D'Apréa, N. Giroud, D. Mourzagh, L. Picard, J. Salomon, S. Solan <i>CEA-Grenoble, Liten/DEHT/LBA, 17 rue des Martyrs, 38054 Grenoble cedex, France</i>
11:10 – 11:40	<b>Coffee Break - Posters - Exhibition - Networking</b>
11:40 – 12:00	<b>"Anisotropy of optical spectroscopy in uniaxially aligned polythiophene films for field-effect transistors"</b> M. Lee <sup>1</sup> , Z. Chen <sup>1</sup> , N. Zhao <sup>2</sup> , M. Heeney <sup>3</sup> , H. Sirringhaus <sup>1</sup> <sup>1</sup> Cavendish Laboratory, Physics Department, University of Cambridge, Cambridge, UK <sup>2</sup> Research Lab of Electronics, Massachusetts Institute of Technology, Cambridge, USA <sup>3</sup> Department of Chemistry, Imperial College of London, London, UK
12:00 – 12:20	<b>"Improved Efficiency of Polymer Light Emitting Diodes (PLEDs) by Using Sulfonium Salts as Organic Electron Injecting Layers (EIL)"</b> D. G. Georgiadou <sup>1,2</sup> , M. Vasilopoulou <sup>1</sup> , L. C. Palilis <sup>1</sup> , L. Sygellou <sup>3</sup> , S. Kennou <sup>3</sup> , D. Dimotikali <sup>2</sup> , P. Argitis <sup>1</sup> <sup>1</sup> Institute of Microelectronics, National Centre for Scientific Research "Demokritos", Athens, Greece. <sup>2</sup> School of Chemical Engineering, National Technical University of Athens, Greece. <sup>3</sup> Department of Chemical Engineering, University of Patras, Greece.
<b>SESSION: Integrated Systems</b>	
<b>Chairs:</b> L. Heinze, VDI/VDE Innovation + Technik GmbH, Germany	
12:20 – 12:50 INVITED	<b>"Smart textile and Wearable systems: From R&amp;D to Integrated Solutions"</b> Andreas Lymberis <i>European Commission, Information Society &amp; Media Directorate-General Micro Systems, Belgium</i>
12:50 – 13:10	<b>"Crack prevention of highly bent metal thin films in woven electronic textiles"</b> T. Kinkeldei, K. Cherenack, C. Zysset, G. Tröster <i>Wearable Computing Laboratory, Federal Institute of Technology Zurich, Zurich, Switzerland</i>
13:10 – 13:30	<b>"An Organic Semiconductor Based Surface-Type Resistive-Capacitive Multifunctional Flexible Sensor"</b> M. H. Sayyad <sup>1</sup> , Z. Ahmad <sup>1</sup> , M. Shahid <sup>2</sup> , M. A. Munawar <sup>2</sup> <sup>1</sup> Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi, Pakistan. <sup>2</sup> Institute of Chemistry, University of the Punjab, Lahore, Pakistan
13:30 – 15:00	<b>Lunch Break - Networking</b>

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**SESSION: Flexible circuits and sensors****Chairs: J. Hast**, VTT Technical Research Centre, Finland

<b>15:00 – 15:30</b> <b>INVITED</b>	<b>“Organic Electronics for Biosensors and Bioactuators”</b> George Malliaras <i>Centre Microélectronique de Provence Ecole Nationale Supérieure des Mines de Saint Etienne, France</i>
<b>15:30 – 15:50</b>	<b>“Testing of flexible IGZO based TFTs under mechanical strain”</b> N. Münzenrieder, K. Cherenack, G. Tröster <i>Institute for Electronics, Swiss Federal Institute for Technology Zürich, Switzerland</i>
<b>15:50 – 16:10</b>	<b>“Full printed organic CMOS circuits for large area electronics”</b> H. Rouault, R. Coppard, J.-M. Verilhac, M. Benwadih, A.-L. Seiler, S. Jacob, C. Bory, J. Bablet, M. Heitzmann, J. Tallal, R. Gwoziecki, I. Chartier, C. Serbutoviez <i>CEA-Grenoble, LITEN/DTNM/LCI, Grenoble, France</i>
<b>16:10 – 16:30</b>	<b>Coffee Break - Posters - Exhibition - Networking</b>
<b>16:30 – 17:00</b> <b>INVITED</b>	<b>Correlation between surface morphology and performance of optoelectronic devices</b> Ana B. Rodríguez, <sup>1</sup> Monika Voigt, <sup>1</sup> Simon J. Martin, <sup>1</sup> Tracie J. Whittle, <sup>2</sup> Robert M. Dalgliesh, <sup>3</sup> Richard L. Thompson, <sup>4</sup> David G. Lidzey, <sup>1</sup> and <u>Mark Geoghegan</u> <sup>1</sup> <i>1 Department of Physics and Astronomy, University of Sheffield, Hicks Building, Sheffield S3 7RH, UK</i> <i>2 Department of Chemistry, University of Sheffield, Sheffield S3 7HF, UK</i> <i>3 ISIS Pulsed Neutron and Muon Source, Rutherford Appleton Laboratory, Chilton, Didcot, UK</i> <i>4 Department of Chemistry, Durham University, South Road, Durham DH1 3LE, UK</i>
<b>17:00 – 17:20</b>	<b>“Low cost solution-processed high-k gate dielectric materials for large area circuit applications”</b> W.-Y. Lin <sup>1,2</sup> , R. Muller <sup>1</sup> , S. Steudel <sup>1</sup> , J. Genoe <sup>1</sup> , P. Heremans <sup>1,3</sup> <i><sup>1</sup>Imec vzw, Leuven, Belgium</i> <i><sup>2</sup>Department of Metallurgy and Materials Engineering(MTM), Katholieke Universiteit Leuven, Belgium</i> <i><sup>3</sup>Department of Electrical Engineering – ESAT, Katholieke Universiteit Leuven, Belgium</i>
<b>17:20 – 17:40</b>	<b>“Printed Metal Electrode for Flexible Devices”</b> <u>M. Yoshida</u> , K. Suemori, S. Uemura, S. Hoshino, N. Takada, T. Kodzasa, T. Kamata <i>Photonics Research Institute, AIST, Tsukuba Ibaraki, Japan</i>
<b>17:40 – 17:50</b>	<b>Young Researcher Award for Best Oral and Best Poster Presentations</b>
<b>17:50 – 19:00</b>	<b>Closing Remarks and Discussion</b> End of IS-FOE10

## POSTERS

<b>P1</b>	<p><b>“Fabrication and Study of Flexible Organic Junction Diodes”</b>  M. H. Sayyad<sup>1</sup>, Z. Ahmad<sup>1</sup>, M. Shahid<sup>2</sup>, M. A. Munawar<sup>2</sup>  <i>Faculty of Engineering Sciences, GIK Institute of Engineering Sciences and Technology, Topi, Pakistan</i>  <i>Institute of Chemistry, University of the Punjab, Lahore 54000, Pakistan</i></p>
<b>P2</b>	<p><b>“The Printing Textiles with Chemical Sensors Properties”</b>  Izabella Krucinska, Wieslawa Urbaniak-Domagala, Ewa Skrzetuska  <i>Technical University of Lodz, Faculty of Material Technology and Textile Designing, Lodz, Poland</i></p>
<b>P3</b>	<p><b>“Energy transfer versus electron transfer in polyindenofluorene: PCBM blend films”</b>  Ying Woan Soon, Tracey Clarke, Weimin Zhang, Tiziano Agostinelli, James Kirkpatrick, Clare Dyer-Smith, James Durrant, Iain McCulloch, and Jenny Nelson  <i>Department of Chemistry, Imperial College London, London, United Kingdom</i></p>
<b>P4</b>	<p><b>“Fundamental Aspects of Gate Electrode Work Function for Pentacene Field-Effect Devices”</b>  J. S. Choi, J. Park, D. W. Kim  <i>Department of Electrical, Information and Control Engineering, Hongik University, Seoul, Korea</i></p>
<b>P5</b>	<p><b>“Effect of annealing in the optical, surface and structural properties of P3HT &amp; PCBM thin films”</b>  D. Georgiou, P. Karagiannidis, C. Pitsalidis, A. Laskarakis, S. Logothetidis  <i>Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</i></p>
<b>P6</b>	<p><b>“The Melt-Blown Non-woven for Thermal Sensors”</b>  Izabella Krucinska, Beata Surma, Michal Chrzanowski  <i>Technical University of Lodz, Faculty of Material Technology and Textile Designing, Lodz, Poland</i></p>
<b>P7</b>	<p><b>“Surface Morphology and Optical Properties of <math>\alpha</math>-quaterthiophene Thin Films Deposited by Thermal Evaporation”</b>  C. Pitsalidis, P. Karagiannidis, C. Koidis, A. Laskarakis, S. Logothetidis  <i>Aristotle University of Thessaloniki, Physics Department, Laboratory for Thin Films-Nanosystems and Nanometrology, GR-54124, Thessaloniki, Greece</i></p>
<b>P8</b>	<p><b>“Improvement of the Performances of the Organic Field Effect Transistors”</b>  O. Boughias, M.S. Belkaid  <i>Electronics Department, Laboratory of Advanced Technologies of Genie Electrics, University of Mouloud Mammeri, Tizi-ouzou, Algeria</i></p>
<b>P9</b>	<p><b>“Characterization of tungsten and molybdenum oxides as interfacial layers for improving performance in hybrid optoelectronic devices”</b>  M. Vasilopoulou<sup>1</sup>, L. C. Palilis<sup>1</sup>, D. G. Georgiadou<sup>1</sup>, P. Argitis<sup>1</sup>, S. Kennou<sup>2</sup>, L. Sygellou<sup>2</sup>, I. Kostis<sup>3,4</sup>, G. Papadimitropoulos<sup>1</sup>, N. A. Stathopoulos<sup>3</sup>, A. Iliadis<sup>4,5</sup>, N. Konofaos<sup>4</sup> and D. Davazoglou<sup>1</sup>  <sup>1</sup> <i>Institute of Microelectronics, NCSR Demokritos, Athens, Greece</i>  <sup>2</sup> <i>Department of Chemical Engineering, University of Patras, Patras, Greece</i>  <sup>3</sup> <i>Department of Electronics, Technological and Educational Institute of Pireaus, Aegaleo, Greece</i>  <sup>4</sup> <i>Department of Information and Communication Systems Engineering, University of the Aegean, Greece</i>  <sup>5</sup> <i>ECE Department, University of Maryland, College Park, USA</i></p>
<b>P10</b>	<p><b>“Synthesis, Optical and Electrical Properties of Au Nanoparticles/ Cationic Polythiophene Polyelectrolyte composites”</b>  S. Kazim<sup>1</sup>, M. Bondarev<sup>2</sup>, J. Vohlidal<sup>2</sup>, M. Prochazka<sup>3</sup>, J. Pflieger<sup>1</sup>  <sup>1</sup> <i>Department of Polymer Materials, Institute of Macromolecular Chemistry, Prague, Czech Republic</i>  <sup>2</sup> <i>Charles University in Prague, Faculty of Sciences, Prague, Czech Republic</i>  <sup>3</sup> <i>Charles University in Prague, Faculty of Mathematics and Physics, Prague, Czech Republic</i></p>
<b>P11 (LMP)</b>	<p><b>“Novel water-soluble copolymers containing quinoline groups: pH- responsive and sensing optical properties in aqueous solution”</b>  I. Thivaivos, S. Kourkouli, A. Stefopoulos, G. Bokias, J. K. Kallitsis  <i>Department of Chemistry, University of Patras, GR-26504 Patras, Greece</i></p>
<b>P12</b>	<p><b>“Co-sputtered oxide thin film encapsulated organic electronic devices with prolonged lifetime”</b>  F.L. Wong, M.K. Fung, C.Y. Ng, A. Ng, I. Bello, C.S. Lee, S. T. Lee  <i>Center of Super Diamond and Advanced Thin Films, Department of Physics and Materials Science, City University of Hong Kong, Tat Chee Avenue, Hong Kong, SAR, PR China</i></p>
<b>P13</b>	<p><b>“Parylene dielectric layers for C60 organic field effect transistors”</b>  G. Schwabegger, C. Simbrunner, M. Ullah, G. Hernandez-Sosa, H. Sitter  <i>Institute of Solid State Physics, Johannes Kepler University, Linz, Austria</i></p>
<b>P14</b>	<p><b>“On the optimization of gravure printed PEDOT:PSS thin films”</b>  C. Koidis, P. G. Karagiannidis, A. Ioakimidis, S. Kassavetis, N. A. Hastas, A. Laskarakis, and S. Logothetidis</p>



	<i>Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
<b>P15</b>	<p><b>“Fabrication of a Complementary Organic Inverter and its modeling and Simulation in CADENCE”</b>  N.P. Papadopoulos<sup>1</sup>, R. Picos<sup>3</sup>, A. Marsal<sup>2</sup>, J. Puigdollers<sup>2</sup>, R. Alcubilla<sup>2</sup>, A. A. Hatzopoulos<sup>1</sup>  <sup>1</sup> Aristotle University of Thessaloniki, Dept. of Electrical and Computer Eng., Electronics Lab., Greece  <sup>2</sup> Dept. Enginyeria Electronica, Universitat Politecnica Catalunya, Barcelona (Spain)  <sup>3</sup> Dept. Física, Univ. Illes Balears, Balears, Palma, Spain</p>
<b>P16</b>	<p><b>“Influence of Molecular Vibrations and Electrostatic Interactions on Charge Transport Parameters in Oligoacenes”</b>  N. Martinelli<sup>1</sup>, L. Muccioli<sup>2</sup>, C. Zannoni<sup>2</sup>, J. Cornil<sup>1</sup>  <sup>1</sup> Laboratory for Chemistry of Novel Materials, University of Mons, Place du Parc 20, B-7000 Mons, Belgium  <sup>2</sup> Dipartimento di Chimica Fisica e Inorganica and INSTM, Università di Bologna, Bologna, Italy</p>
<b>P17 (LMP)</b>	<p><b>“From Single Organic Devices to Integrated Circuits”</b>  C. Lackner, M. Sams, T. Ostermann  Institute for Integrated Circuits, Johannes Kepler University, Altenbergerstraße 69, 4040 Linz, Austria</p>
<b>P18</b>	<p><b>“Organic Thin Film Transistor Using Transfer-Printed Ag Electrodes”</b>  Hyunduck Cho, Mingyu Kim, Myoung-jin Park, Chan-mo Kang, Yongtaek Hong, Ki-Woong Whang, Bo Hyung Cho, and Changhee Lee  School of Electrical Engineering and Computer Science, Inter-University Semiconductor Research Center, Seoul National University Seoul 151-744, Korea</p>
<b>P19</b>	<p><b>“Fabrication of large area masters for roll-to-roll imprinting of organic electronic devices on flexible substrates”</b>  G. Lalev<sup>1</sup>, H. Hirshy<sup>1</sup>, S. Scholz<sup>1</sup>, V. Velkova<sup>1</sup>, S. Dimov<sup>1</sup>, H. Gold<sup>3</sup>, B. Stadlober<sup>3</sup>, Anja Haase<sup>3</sup>, J. Hiitola-Keinänen<sup>2</sup>, M. Ylikunnari<sup>2</sup>, J. Hast<sup>2</sup>, M. Känsäkoski<sup>2</sup>  <sup>1</sup> Manufacturing Engineering Centre, Cardiff University, Cardiff CF24 3AA, UK  <sup>2</sup> Printed Functional Solutions centre, Technical research centre of Finland, Oulu, Finland  <sup>3</sup> Joanneum Research, Institute of Nanostructured Materials and Photonics, Weiz, Austria</p>
<b>P20</b>	<p><b>“Optical, surface, electrical, and nanomechanical properties of roll-to-roll gravure printed PEDOT:PSS thin films”</b>  C. Koidis<sup>1</sup>, C. Kapnopoulos<sup>1</sup>, P. G. Karagiannidis, M. Chatzidis<sup>1</sup>, S. Kassavetis, N. A. Hastas, A. Laskarakis, and S. Logothetidis  <sup>1</sup> Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Department of Physics, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece  <sup>2</sup> Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124, Thessaloniki, Greece</p>
<b>P21 (LMP)</b>	<p><b>“Inkjet printed organic layers on nano- and microstructured flexible substrates for organic electronic devices”</b>  P. Lewer, K. Schulze, S. Janietz  Polymers and Electronics, Fraunhofer Institute for Applied Polymer Research, Geiselbergstr. 69, 14476 Potsdam-Golm, Germany</p>
<b>P22</b>	<p><b>“Influence of alloyed nanocrystal doping on performance of polymer-hybrid light emitting diodes (PLEDs)”</b>  S. Tekoglu<sup>1</sup>, U. Abaci<sup>1,2</sup>, M. Kus<sup>3</sup>, C. Ünlü<sup>4</sup>, S. Tilki<sup>3</sup>, S. Özcelik<sup>4</sup>, N. S. Sariciftci<sup>1</sup>  <sup>1</sup> Linz Institute for Organic Solar Cells (LIOS), Physical Chemistry, Johannes Kepler University of Linz, Linz, Austria</p>
<b>P23</b>	<p><b>“Increased light harvesting in P3HT:PCBM bulk heterojunction solar cells with solvent additives”</b>  Antonietta De Sio, Ralph Huber, Elizabeth von Hauff, Jürgen Parisi  Energy and Semiconductor Research Laboratory, Carl von Ossietzky Universität Oldenburg, Germany</p>
<b>P24</b>	<p><b>“Sputtered ZnO:Al recombination layer for flexible organic tandem solar cells”</b>  A. Bauer, J. Hanisch, E. Ahlswede  Zentrum für Sonnenenergie- und Wasserstoff-Forschung, Stuttgart, Germany</p>
<b>P25</b>	<p><b>“High efficiency organic solar cells using cathode modifier”</b>  Soon Ok Jeon, Jun Yeob Lee  Department of Polymer Science and Engineering, Dankook Universit, Jukjeon-dong, Suji-gu, Yongin-si, Korea</p>
<b>P26</b>	<p><b>“Electric Field Dependence of Charge Generation in PCPDTBT:PCBM Blend Solar Cells”</b>  Fiona C. Jamieson,<sup>a</sup> Andrea Maurano,<sup>a</sup> Tiziano Agostinelli,<sup>b</sup> Jenny Nelson,<sup>b</sup> James. R. Durrant<sup>a</sup>  Departments of Chemistry<sup>a</sup> and Physics,<sup>b</sup> Imperial College London, South Kensington, SW7 2AZ, UK</p>
<b>P27</b>	<p><b>“Improvement of the performances of the P3HT/PCBM based photovoltaic solar cells”</b>  F.Belhocine-Nemmar, MS.Belkaid, D. Hatem, O. Boughias  Laboratory of Advanced Technologies of Genie Electrics, Electronic Department, University of Mouloud Mammeri, Tizi Ouzou, Algeria</p>

<b>P28 (LMP)</b>	<p><b>“The results of the FACES project after month 24”</b>  J. Hast, P. Kopola, J. Lenkkeri, M. Ylikunnari, J. Petäjä, M. Tuomikoski, A. Maaninen  <i>TTT Technical Research Centre of Finland, Kaitoväylä 1, 90571 Oulu, Finland</i>  T. Aernouts, J. Genoe  <i>Interuniversity Microelectronics Centre, Kapeldreef 75, B-3001 Leuven, Belgium</i>  B. Vandecasteele  <i>Interuniversity Microelectronics Centre, 9052 Zwijnaarde Gent, Belgium</i>  H. Rouault, S. Guillerez  <i>Commissariat à l’Energie Atomique, Rue des Martyrs, 38054 Grenoble, France</i>  M. Siekiersky, A. Nikolajewna, M. Nikolajew  <i>Warsaw Technical University, Plac Politechniki 1, 00-661 Warsaw, Poland</i>  H. Aminian  <i>Umicore S.A., Kasteelstraat 7, BE-2250 Olen Belgium</i>  T. Kolbush, R. Reuscher  <i>Coatema Coating Machinery GmbH, Roseller strasse 4, D-41539 Dormagen, Germany</i>  M. Kohvakka  <i>Suntrica Oy, Verstaankatu 2 C, 33100 Tampere, Finland</i></p>
<b>P29 (LMP)</b>	<p><b>“Correlation between macromolecular design, morphology and performances on the use of block copolymers as additives in a P3HT/PCBM blend for OPV cells”</b>  C. Nicolet<sup>ab</sup>, D. Deribew<sup>ab</sup>, C. Renaud<sup>ab</sup>, C. Brochon<sup>ab</sup>, G. Fleury<sup>ab</sup>, E. Cloutet<sup>ab</sup>, L. Vignau<sup>cd</sup>, P. Gaillarde<sup>e</sup>, H. Cramail<sup>ab</sup>, G. Hadziioannou<sup>ab</sup>.  <sup>a</sup><i>Université de Bordeaux, Laboratoire de Chimie des Polymères Organiques, IPB-ENSCBP, 16, Avenue Pey Berland, Pessac Cedex, F-33607, France;</i>  <sup>b</sup><i>CNRS, Laboratoire de Chimie des Polymères Organiques, UMR 5629, Pessac Cedex, F-33607, France</i>  <sup>c</sup><i>Université de Bordeaux, Laboratoire de l’Intégration du Matériau au Système, IPB-ENSCBP, 16, Avenue Pey Berland, Pessac Cedex, F-33607, France;</i>  <sup>d</sup><i>CNRS, Laboratoire de l’Intégration du Matériau au Système, UMR 5218, Pessac Cedex, F-33607, France</i>  <sup>e</sup><i>Arkema, GRF/Lacq, Pôle Economique, 1 route nationale 117 F-64170 LACQ, France</i></p>
<b>P30</b>	<p><b>“High Frequency Operating Pentacene Rectifying Diode with Inkjet Printed Electrode”</b>  Chan-mo Kang, Hyunduck Cho, Mingyu Kim, Myoung-jin Park, Yongtaek Hong, Ki-Woong Whang, Bo Hyung Cho, Changhee Lee  <i>School of Electric Engineering and Computer Science, Inter-university Semiconductor Research Center, Seoul National University, 599 Gwanakro, Gwanak-gu, Seoul, 151-744, Korea</i></p>
<b>P31</b>	<p><b>“Towards all-printed wireless organic humidity sensor”</b>  Xiaodong Wang, Oscar Larsson, Magnus Berggren, Xavier Crispin  <i>Dept. of Science and Technology (ITN), Linköping University, SE-601 74 Norrköping, Sweden</i></p>
<b>P32</b>	<p><b>“Temperature dependent photo-conductivity of DNA:PEDOT thin films”</b>  V. Kažukauskas<sup>1</sup>, M. Pranaitis<sup>1</sup>, O. Krupka<sup>2</sup>, F. Kajzar<sup>2</sup>, B. Sahraoui<sup>2</sup>  <sup>1</sup><i>Semiconductor Physics Department and Institute of Applied Research of Vilnius University, Vilnius, Lithuania</i>  <sup>2</sup><i>Laboratory POMA CNRS FRE 2988, Angers University, Angers, France</i></p>
<b>P33 (LMP)</b>	<p><b>“High performance inkjet-printed polymer field-effect transistor and its complementary inverter and ring oscillator circuits”</b>  Kang-Jun Baeg<sup>1</sup>, Dongyoon Khim<sup>2</sup>, Dong-Yu Kim<sup>2</sup>, Antonio Facchetti<sup>3</sup>, Soon-Won Jung<sup>1</sup>, Jae Bon Koo<sup>1</sup>, In-Kyu You<sup>1</sup>, and Yong-Young Noh<sup>4</sup>  <sup>1</sup><i>Convergence Components &amp; Materials Research Laboratory, Electronics Telecommunications Research Institute (ETRI), Daejeon 305-350, Republic of Korea</i>  <sup>2</sup><i>Heeger Center for Advanced Materials, Dept. of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea</i>  <sup>3</sup><i>Polyera Corporation, Skokie, Illinois, United States</i>  <sup>4</sup><i>Dept. of Chemical Engineering, Hanbat National University, Daejeon, 305-719, Republic of Korea</i></p>
<b>P34 (LMP)</b>	<p><b>“Role of geometry, substrate and atmosphere on performance of OFETs based on TTF derivatives”</b>  T. Marszalek<sup>1</sup>, B. Luszczynska<sup>1</sup>, A. Nosal<sup>2</sup>, R. Pfattner<sup>3</sup>, J. Jung<sup>1</sup>, S. Kotarba<sup>1</sup>, M. Mas-Torrent<sup>3</sup>, M. Gazicki-Lipman<sup>2</sup>, C. Crickert<sup>4</sup>, G. Schmidt<sup>4</sup>, C. Rovira<sup>3</sup> and J. Ulanski<sup>1</sup>  <sup>1</sup><i>Department of Molecular Physics, Technical University of Lodz, 90-924 Lodz, Poland</i>  <sup>2</sup><i>Institute of Mechanical Engineering, Technical University of Lodz, 90-924 Lodz, Poland</i>  <sup>3</sup><i>Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), 08193 Bellaterra, Spain</i>  <sup>4</sup><i>Physikalisches Institut (EP3), Universität Würzburg, D-97074 Würzburg Germany</i></p>
<b>P35 (LMP)</b>	<p><b>“Multilayered polymer organization for organic solar cells”</b>  L. Perrin, A. Nourdine, L. Flandin, N.D. Alberola  <i>LMOPS, Laboratoire Matériaux Organiques à Propriétés Spécifiques, Université de Savoie</i></p>

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<b>P36 (LMP)</b>	<p><b>"Synthesis of an alternating copolymer in order to improve the organization and the stability of OPV solar cells' active layer"</b></p> <p>L. Perrin, M. Legros, R. Mercier</p> <p><i>LMOPS, Laboratoire Matériaux Organiques à Propriétés Spécifiques, Université de Savoie</i>  <i>Bâtiment IUT - Savoie Technolac - 73376 Le Bourget du Lac - FRANCE</i></p>
<b>P37 (LMP)</b>	<p><b>"Synthesis, characterization and photophysical properties of benzotriazole based copolymers and their photovoltaic applications"</b></p> <p>L. Perrin, V. Murugesan, R. Mercier</p> <p><i>LMOPS, Laboratoire Matériaux Organiques à Propriétés Spécifiques, Université de Savoie</i>  <i>Bâtiment IUT - Savoie Technolac - 73376 Le Bourget du Lac - FRANCE</i></p>
<b>P38 (LMP)</b>	<p><b>"Encapsulation Quality Inspection in Printed Electronics with Ultra-High Resolution Optical Coherence Tomography"</b></p> <p>J. Czajkowski<sup>1</sup>, T. Fabritius<sup>1</sup>, T. Marszałek<sup>2</sup>, A. Nosal<sup>3</sup>, M. Gazicki-Lipman<sup>3</sup>, J. Ulański<sup>2</sup>, and R. Myllylä<sup>1</sup></p> <p><i>1 Optoelectronics and Measurement Techniques Laboratory, University of Oulu, P.O. Box 4500, 90014 University of Oulu, Finland</i>  <i>2 Department of Molecular Physics, Technical University of Lodz, 90-924 Lodz, Poland</i>  <i>3 Institute of Mechanical Engineering, Technical University of Lodz, 90-924 Lodz, Poland</i></p>
<b>P39</b>	<p><b>"Optical and vibrational properties of pentacene: polymorph identification and impurity effects"</b></p> <p>G. Volonakis<sup>1</sup>, L. Tsetseris<sup>2,3</sup>, and S. Logothetidis<sup>1</sup></p> <p><i>1 Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>  <i>2 Department of Physics, National Technical University of Athens, Athens, Greece</i>  <i>3 Department of Physics and Astronomy, Vanderbilt University, Nashville, TN, USA</i></p>
<b>P40 (LMP)</b>	<p><b>"Transmission Electron Microscopy study of P3HT:PCBM active layer in organic solar cells"</b></p> <p>K. Breza, N. Vouroutzis, N. Frangis, P. Karagiannidis, S. Logothetidis</p> <p><i>Solid State Physics Section, Department of Physics, Aristotle University of Thessaloniki, GR-54124 Thessaloniki, Greece</i></p>
<b>P41 (LMP)</b>	<p><b>P3HT:PCBM Bulk Heterojunction Solar Cells Characterized by Spectroscopic Ellipsometry</b></p> <p>D. Cattelan a , M. Gaillet b , L. Yan c</p> <p><i>a,b HORIBA Jobin Yvon SAS, Thin Film Division, Z.A. de la Vigne aux Loups, 5 Av. Arago, 91380 Chilly-Mazarin, France</i>  <i>c HORIBA Jobin Yvon Inc, 3880 Park Avenue, Edison, NJ 08820-3012, USA, li.yan@horiba.com</i></p>
<b>P42 (LMP)</b>	<p><b>The results of the OLATronics project until Month 30</b></p> <p>S. Logothetidis, D. Georgiou, A. Laskarakis  Aristotle University of Thessaloniki, Greece</p> <p>A. Wedel, S. Amberg-Schwab, K. Noller, M. Schmidt, E. Kucukpinar-Niarchos, U. Weber, H. Krueger, C. Boeffel  Fraunhofer Gesellschaft, Germany</p> <p>D. Cattelan  Horiba Jobin Yvon, France</p> <p>G. Rieger, W. Roth  SIEMENS Aktiengesellschaft, Germany</p> <p>W. Lohwasser  Alcan Technologies &amp; Management, Switzerland</p> <p>J. Hauch, M. Morana  Konarka, Austria</p> <p>S. Kirchmeyer, W. Lovenich  H.C. Starck, Germany</p> <p>K. McGuire  Konarka Technologies Inc</p>