

**10<sup>th</sup> International Symposium on Flexible Organic Electronics (ISFOE17), 3-6 July 2017, Thessaloniki, Greece**

**PROGRAM**

**Monday 3 July 2017**

<b>08:00 - Registration</b>	
<b>09:00-09:30</b>	<b>Welcome and Opening Remarks</b> S. Logothetidis, ISFOE17 Chairman
<b>09:30-11:00</b>	<b>Workshop on OLAE Materials 1 (Room : Crystal Hall)</b> Chair: K. Porfyrakis, <i>University of Oxford, UK</i>
<b>09:30-10:00</b> KEYNOTE	<b>High Performance Polymer and Polymer/Inorganic Thermoelectric Materials</b> G. Hadziioannou <i>Laboratoire de Chimie des Polymères Organiques, CNRS - ENSCPB - Université de Bordeaux, France</i>
<b>10:00-10:15</b>	<b>Ag nanowires percolating network embedded in oxide nanoparticles for transparent and conducting electrodes applied to organic solar cells</b> M.Chalh, S.Vedraïne, B.Lucas, B.Ratier <i>Limoges University, Institut XLIM, CNRS-UMR, Limoges, France</i>
<b>10:15-10:30</b>	<b>In situ Characterisation of polymer-Small Molecules Bilayer Stability</b> E. Rezasoltani <sup>1</sup> , A.A.Y. Guilbert <sup>1</sup> , B. Rice <sup>1</sup> , A. Wadsworth <sup>2</sup> , M. Campoy-Quiles <sup>3</sup> , I. McCulloch <sup>4</sup> , J. Nelson <sup>1</sup> <sup>1</sup> <i>Department of Physics and Centre for Plastic Electronics, Imperial College London, UK</i> , <sup>2</sup> <i>Department of Chemistry and Centre for Plastic Electronics, Imperial College London, UK</i> , <sup>3</sup> <i>Institute of Material Science of Barcelona (ICMAB-CSIC), Barcelona, Spain</i> , <sup>4</sup> <i>Physical Science and Engineering Division, King Abdullah University of Science and Technology, Saudi Arabia</i>
<b>10:30-10:45</b>	<b>Spectroscopic Imaging Ellipsometry on Anisotropic Thiophene-Phenylene Co-oligomer Micro Crystals</b> C. Röling <sup>1,2</sup> , S. Funke <sup>2</sup> , E. Y. Poimanova <sup>3</sup> , V.V. Bruevich <sup>3</sup> <sup>1</sup> <i>Department of Physical Chemistry, Georg-August, Universität. Göttingen, Germany</i> , <sup>2</sup> <i>Accurion GmbH, Göttingen, Germany</i> , <sup>3</sup> <i>Department of Chemistry, Donetsk National University, Ukraine</i> , <sup>4</sup> <i>International Laser Center &amp; Physics Faculty, M.V. Lomonosov Moscow State University, Russia</i>
<b>10:45-11:00</b>	<b>Morphology Change of Metal Nanowires into Particles via Laser-Driven Rayleigh Instability and Their Tunable Plasmonic Behavior</b> M. Lee, H. Oh, J. Lee, Y. Oh <i>Department of Materials Science and Engineering Yonsei University, Seoul, Korea</i>
<b>11:00 – 11:30</b> <b>Coffee Break</b> <b>ISFOE17 Posters 1 – Exhibition - Networking</b>	
<b>11:30-13:30</b>	<b>Workshop on OLAE Materials 2 (Room : Crystal Hall)</b> Chair: A. Laskarakis, <i>LTFN, AUTH, Greece</i>
<b>11:30-12:00</b> KEYNOTE	<b>Next Generation Printed Electronics &amp; Photovoltaics: Harnessing Ink-based Manufacturing</b> A. Amassian <i>Organic Electronics &amp; Photovoltaics Group, KAUST, Saudi Arabia</i>
<b>12:00-12:30</b> INVITED	<b>High throughput evaluation of organic photovoltaic materials using controlled lateral gradients in the parameters of interest</b> A.Sanchez-Díaz, X. Rodríguez-Martínez, G. Mora-Martín, E. Pascual-San José, M. Campoy Quiles <i>Nanostructured Materials Department, Institut de Ciència de Materials de Barcelona (ICMAB-CSIC), Spain</i>
<b>12:30-13:00</b> INVITED	<b>SAES Functional chemicals for lifetime insurance in Organic Electronics</b> P. Vacca <i>SAES Group, Italy</i>
<b>13:00-13:15</b>	<b>New routes for encapsulation of OPV Devices</b> V. Broha <sup>1</sup> , S. Cros <sup>1</sup> , M. Hidalgo <sup>2</sup> , D. Thil <sup>2</sup> , S. Berson <sup>1</sup> <sup>1</sup> <i>Univ. Grenoble Alpes, INES, CEA/LITEN, Department of Solar Technologies, France</i> , <sup>2</sup> <i>Arkema, Sollia Joint Laboratory at INES, France</i>
<b>13:15-13:30</b>	<b>Bringing Permeation Barriers to Application: From Ultra-High Barrier Performance to Functional Films for Flexible Electronics</b> M. Top, S. Hinze, S. Bunk, J. Fahlteich, M. Fahland <i>Fraunhofer FEP, Dresden, Germany</i>
<b>13:45 – 15:00</b> <b>Lunch Break</b> <b>ISFOE17 Posters 1 – Exhibition – Networking</b>	

15:00-17:45	<b>Workshop on OPVs &amp; Perovskite PVs 1 (Room : Crystal Hall)</b> Chairs: M. Campoy Quiles, <i>ICMAB-CSIC, Spain</i>			15:00-17:30	<b>Workshop on JAPEC &amp; HOPE-A (Room : Timber Hall 2)</b> Chairs: to be announced soon
15:00-15:30 KEYNOTE	<b>Modelling metal-halide perovskites for solar cell applications</b> F. De Angelis <sup>1,2</sup> <sup>1</sup> <i>Computat. Lab Hybrid/Organic Photovoltaics (CLHYO), CNR-ISTM, Italy</i> <sup>2</sup> <i>CompuNet, Istituto Italiano di Tecnologia, Genova, Italy</i>			15:00-15:15	<b>Welcome</b> S. Logothetidis, President of HOPE-A, Greece T. Kamata, President of JAPEC, Japan
15:30-16:00 KEYNOTE	<b>Designing Lead-Free Halide Double Perovskites from First-Principles</b> G. Volonakis <i>Department of Materials, University of Oxford, UK</i>	16:00-18:00	<b>Workshop on OTFTs, Sensors &amp; Circuits 1 (Room : Timber Hall 1)</b> Chairs: N. T. Kemp, <i>University of Hull, UK</i>	15:15-15:45	<b>Industrial technology trend of Flexible &amp; Printed Electronics in JAPAN</b> T. Kamata, AIST/JAPEC, Japan
16:00-16:30 INVITED	<b>Towards Roll2Roll processing of perovskites PV</b> H. Lifka <sup>1</sup> , F. Di Giacomo <sup>2</sup> , Y. Galagan <sup>1</sup> , S. S. Hanmugam <sup>1</sup> , G. Kirchner <sup>2</sup> , H. Gorter <sup>2</sup> , I. de Vries <sup>2</sup> , H. Fledderus <sup>2</sup> , M. Dorenkamper <sup>3</sup> , W. Qiu <sup>4</sup> , T. Aernouts <sup>4</sup> , S. Veenstra <sup>3</sup> , P. Groen <sup>2</sup> , R. Andriessen <sup>1</sup> <sup>1</sup> <i>Holst Centre –Solliance, The Netherlands, 2 Holst Centre, The Netherlands, 3 ECN-Solliance, Netherlands, 4 IMEC-Solliance, Belgium</i>	16:00-16:30 INVITED	<b>Vapour-Induced Demixing in Solution-Processed Ferroelectric Films for Organic Memory Applications</b> J. J. Michels, H. Sharifi Dehsari, K. Asadi <i>Department of Molecular Electronics, Max Planck Institute for Polymer Research, Mainz, Germany</i>	15:45-16:00	<b>Introduction of Flexible &amp; Printed Electronics Activities of TOYOBO and JAPEC</b> Y. Koseki, TOYOBO, Japan
16:30-17:00 INVITED	<b>Physical properties of 2D Ruddlesden-Popper halide perovskite semiconductors</b> J. Even <i>CNRS, INSA Rennes, France</i>	16:30-17:00 INVITED	<b>Role of substituents on molecular organization, surface morphology and charge transport in organic semiconductors</b> T. Marszalek <i>Dept Molecular Physics, Lodz Univ. of Technology, Poland, Max Planck Institute for Polymer Research, Mainz, Germany</i>	16:00-16:30	<b>New developments and Industrial Activities of Organic &amp; Printed Electronics in Greece</b> S. Logothetidis, Nanotechnology Lab LTFN, AUTH, Greece
17:00-17:15	<b>Ferroelectric domains in methylammonium lead iodide perovskite thin-films</b> H. Röhm <sup>1,2</sup> , T. Leonhard <sup>1,2</sup> , M. J. Hoffmann <sup>2,3</sup> , A. Colsmann <sup>1,2</sup> <sup>1</sup> <i>Light Technology Institute, KIT, Karlsruhe, Germany</i> <sup>2</sup> <i>Mat. Res. Center for Energy Systems (MZE), KIT, Karlsruhe, Germany</i> <sup>3</sup> <i>Inst. Applied Materials, Ceramic Mat. &amp; Technologies, KIT, Germany</i>	17:00-17:15	<b>Inorganic-organic bottom-contact/top-gate transistors based on ink-jet printed Zinc Tin Oxide and different organic dielectrics</b> B. Sykora, H. V. Seggern <i>Electronic Materials Division, Technische Universität Darmstadt, Germany</i>	16:30-16:45	<b>3rd Generation Organic and Printed Photovoltaics: OPVs Manufacturing, Process Optimization and Applications</b> V. Matskos, OE-Technologies, Greece
17:15-17:30	<b>Fully ambient-processed and highly efficient perovskite solar cell through simple ZnO nanoparticle doping</b> W.T. Wang, Y. Tai <i>Department of Chemical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan</i>	17:15-17:30	<b>The influence of morphology on temperature dependence of charge carrier mobility in organic field effect transistors.</b> A. Luczak, L. Janasz, J. Jung, J. Ulanski <i>Lodz University of Technology, Department of Molecular Physics, Poland</i>	16:45-17:15	<b>Discussion and Closing Remarks</b>
		17:30-17:45	<b>Highly sensitive on-chip fluorescence sensor with integrated fully solution processed organic light sources and detectors</b> Z. Shu <sup>1,2</sup> , F. Kemper <sup>1,2</sup> , E. Beckert <sup>2</sup> , R. Eberhardt <sup>2</sup> , A. Tünnermann <sup>1,2</sup> <sup>1</sup> <i>Institute of Applied Physics, Friedrich Schiller University Jena, Jena</i> <sup>2</sup> <i>Fraunhofer IOF, Department of Precision Engineering, Jena, Germany</i>	17:30	<b>Meeting of the HOPE-A: General Assembly</b>
		17:45-18:00	<b>Optimization of PBDTT-DPP as active layer of organic thin film transistor using annealing treatment</b> H.P. Lai, Y. Tai <i>Department of Chemical Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan</i>		

18:00 – 20:00	<b>Coffee Break</b> <b>ISFOE17 Poster Session 1 – Exhibition – Networking</b>
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20:00	<b>DINNER FOR ISFOE17 KEYNOTE AND INVITED SPEAKERS</b>
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Tuesday 4 July 2017					
<b>08:00</b>	<b>Registration</b>				
<b>09:00-11:00</b>	<b>Workshop on OLAE Materials 3 (Room : Timber Hall 1)</b> Chair: G. Volonakis, <i>University of Oxford, UK</i>				
<b>09:00-09:30</b> <b>KEYNOTE</b>	<b>Development and device performance investigation of a printed flexible TFT array</b> T. Kamata <i>Nat. Inst. Advanced Industrial Science &amp; Technology (AIST), Tsukuba, Japan</i>	<b>09:30-11:00</b>	<b>Workshop on Manufacturing &amp; Laser Technologies 1 (Room : Timber Hall 2)</b> Chair: M. Gioti, <i>LTFN, AUTH, Greece</i>	<b>09:30-11:00</b>	<b>Workshop on Graphene &amp; 2D Materials 1 (ISFOE17 &amp; NN17_W5) (Room : Dock Six 2)</b> Chair: G. Deligeorgis, <i>FORTH IESL, Greece</i>
<b>09:30-10:00</b> <b>INVITED</b>	<b>Nano--Engineering Of Organic Semiconductor Films And Nano--Carbon Composites With High Out--of--Plane Mobility</b> D. R. Barbero <i>Nano--engineered Materials &amp; Organic Electronics, Umeå Universitet, Sweden</i>	<b>09:30-10:00</b> <b>INVITED</b>	<b>Manufacturing of Large area, Fully Printed, Flexible &amp; Semi-Transparent Organic Photovoltaics (OPVs) in R2R process with In-line Quality Control</b> E. Mekeridis <sup>1</sup> , S. Tsimikli <sup>1</sup> , C. Kapnopoulos <sup>2</sup> , V. Matskos <sup>1</sup> , A. Laskarakis <sup>2</sup> , S. Logothetidis <sup>2</sup> <sup>1</sup> <i>Organic Electronic Technologies P.C. (OET), Greece</i> <sup>2</sup> <i>Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece</i>	<b>09:30-10:00</b> <b>INVITED</b>	<b>Graphene and related materials for perovskite solar cells</b> A. di Carlo <i>University of Rome Tor Vergata, Italy</i>
<b>10:00-10:30</b> <b>INVITED</b>	<b>Interplay between Processing and Doping of Organic Semiconductors</b> C. Müller <i>Dept Chemistry &amp; Chemical Engineering, Chalmers Univ. of Technology, Sweden</i>	<b>10:00-10:15</b> <b>PROJECT</b>	<b>R2R suitable short-pulsed laser scribing of organic photovoltaics and close-to-process characterization</b> U. Klotzbach <sup>1</sup> , T. Kuntze <sup>1</sup> , P. Wollmann <sup>1</sup> , H. Fledderus <sup>2</sup> <sup>1</sup> <i>Fraunhofer-Institut für Werkstoff- und Strahltechnik (IWS), Germany</i> <sup>2</sup> <i>TNO/Holst Centre, High Tech Campus 31, Eindhoven, The Netherlands</i>	<b>10:00-10:15</b>	<b>Quasi-Particle Method Approach for Two-Phonon Raman Scattering Intensity in Graphene</b> S. Melkonyan <i>Yerevan State University, Armenia</i>
		<b>10:15-10:30</b> <b>YRA Candidate</b>	<b>Flexography Printing for Organic Thin Film Transistors</b> T. Cosnahan, A. Watt, H. Assender <i>Department of Materials, University of Oxford, UK</i>	<b>10:15-10:30</b>	<b>All-Carbon supra-structures: fullerene decorated carbon nanotubes</b> C. M. Bounioux <sup>1</sup> , E. Ekymov <sup>1</sup> , E.A. Katz, <sup>3</sup> R. Yerushalmi –Rozen <sup>1,3</sup> <sup>1</sup> <i>Dept. of Chem.Eng. Ben-Gurion University of the Negev</i> <sup>2</sup> <i>Dept. of Solar Energy and Environmental Physics, Jacob Blaustein Institutes for Desert Research</i> <sup>3</sup> <i>Ilze Kats Institute for Nanoscale Science and Technology, Ben-Gurion University of the Negev, Israel</i>
<b>10:30-10:45</b>	<b>Tunable Optical Properties In Conjugated Polymers Nanoparticles</b> C. Bellacanzone <sup>1</sup> , M.C. Ruiz Delgado <sup>2</sup> , R. O. Ponce <sup>2</sup> , C. Roscini <sup>1</sup> , D. Ruiz-Molina <sup>1</sup> <sup>1</sup> <i>Catalan Institute of Nanoscience and Nanotechnology (ICN2), CSIC and The Barcelona Institute of Science and Technology, Campus UAB, Spain.</i> <sup>2</sup> <i>University of Malaga, Department of Physical Chemistry, Spain</i>	<b>10:30-10:45</b>	<b>Enabling the Next Generation of Printed Electronics</b> S. Farnsworth, V. Akhavan, K. Schroder <i>NovaCentrix, 400 Parker Drive, Suite 1110, Austin, TX, United States</i>	<b>10:30-10:45</b>	<b>In-Situ and Real-Time Spectroscopic Ellipsometry monitoring of Graphene growth by Chemical Vapour Deposition</b> A. Laskarakis <sup>1</sup> , A. Zachariadis <sup>1</sup> , E.M. Pechlivanis <sup>2</sup> , A. Papamichail <sup>1</sup> , V. Matskos <sup>2</sup> , J. P. Gaston <sup>3</sup> , A. Jouvray <sup>4</sup> , S. Logothetidis <sup>1</sup> <sup>1</sup> <i>Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece</i> <sup>2</sup> <i>Organic Electronic Technologies (OET), Greece</i> <sup>3</sup> <i>HORIBA Jobin Yvon SAS, France,</i> <sup>4</sup> <i>AIXTRON Ltd, United Kingdom</i>
<b>10:45-11:00</b> <b>YRA Candidate</b>	<b>MoOx modified PEDOT:PSS as anode interlayer in organic optoelectronics</b> M. Morbidoni <sup>1</sup> , L. Occhi <sup>2</sup> , X. Wang <sup>2</sup> , A. Regoutz <sup>1</sup> , P. N. Stavrinou <sup>2</sup> , D. J. Payne <sup>1</sup> , M. A. McLachlan <sup>1</sup> <sup>1</sup> <i>Department of Materials, Imperial College London, SW7 2AZ London, UK</i> <sup>2</sup> <i>Department of Physics, Imperial College London, SW7 2AZ London, UK</i>	<b>10:45-11:00</b>	<b>Multiple-materials 3D printing with Functional Inks</b> J.H.Kim <sup>1</sup> , S.Lee <sup>1</sup> , M.Wajahat <sup>1,2</sup> , H.Jeong <sup>1</sup> , W.S.Chang <sup>1</sup> , S.K.Seo <sup>1,2</sup> <sup>1</sup> <i>Nano Hybrid Technology Research Center, Korea Electrotechnology Research Institute, Korea</i> <sup>2</sup> <i>Electrical Functionality Material Engineering, University of Science and Technology, Korea</i>	<b>10:45-11:00</b>	<b>Graphene-based batteries to improve the efficiency of the existing Technologies</b> T.R. González <i>GrapheneTech S.L, Spain</i>
<b>11:00 – 11:30</b>	<b>Coffee Break</b> <b>ISFOE17 Posters 1 – Exhibition – Networking</b> <b>EXPO FORUM 1</b>				
	<b>Workshop on OLAE Materials 4 Room : Timber Hall 1</b> Chair: K. Porfyrakis, <i>University of Oxford, UK</i>		<b>Workshop on Manufacturing &amp; Laser Technologies 2</b> <b>Room : Timber Hall 2</b> Chair: S. Tsimikli, <i>OET, Greece</i>		
<b>11:30-12:00</b> <b>INVITED</b>	<b>Controlling structure, composition and electronic properties of interlayers and electrode materials in organic electronics</b> M. A. McLachlan <i>Dept Materials &amp; Centre Plastic Electronics, Imperial College London, UK</i>	<b>11:30-12:00</b> <b>INVITED</b>	<b>Printed Batteries – Why not rechargeable?</b> M. Krebs <i>Varta Microbattery GbmH, Germany</i>	<b>12:00-13:30</b>	<b>Workshop on Graphene &amp; 2D Materials 2 (ISFOE17 &amp; NN17_W5)</b> <b>Room : Dock Six 2</b> Chair: P. Kelires, <i>Cyprus University of technology, Cyprus</i>

12:00-12:15 YRA Candidate	<b>Computational study of interfacial properties of polypyrrole on diamond nanoparticles for photovoltaic applications</b> P.Matunová <sup>1,2</sup> , V. Jirásek <sup>2</sup> , B. Rezek <sup>1,2</sup> <i>1Institute of Physics ASCR, Prague, Czech Republic</i> <i>2 Faculty Electrical Engin. Czech Technical University, Czech Republic</i>	12:00-12:15 PROJECT	<b>Mass production in Flexible Electronics: the concept of the pilot lines</b> E. Turco, R. Frycek, L. Bajarova, M. Maric, J. Mesikova <i>AMIRES s.r.o. Prague, Czech Republic</i>	12:00-12:30 INVITED	<b>Advances in 2D material electronics</b> G. Deligeorgis <i>FORTH IESL, Greece</i>
12:15-12:30	<b>Printed flexible non-volatile resistive memories based on a hybrid organic/inorganic functional ink</b> G. Casula <sup>1</sup> , B. Tkacz Szczesna <sup>2</sup> , Y. Busby <sup>3</sup> , G. Celichowski <sup>2</sup> , J. Grobelny <sup>2</sup> , J.-J. Pireaux <sup>3</sup> , P. Cosseddu <sup>1</sup> , A. Bonfiglio <sup>1</sup> <i>1 Dept Electrical &amp; Electronic Engineering, University of Cagliari Italy</i> <i>2 Dept Materials Technology and Chemistry, University of Lodz, Poland</i> <i>3 Research Center PMR, LISE, University of Namur, Belgium</i>	12:15-12:30 PROJECT	<b>Unique R2R Pilot to Production line with In-line Optical Metrology (EU Project Smartonics)</b> A. Laskarakis, S. Logothetidis <i>Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece</i>		
12:30-12:45	<b>Metal Organic Chalcogenides Assemblies (MOCHAs), a new platform for ultrafast, bulk excitonic materials</b> L. Maserati, C. Kastl, J.N. Hohman, A. Schwartzberg <i>The Molecular Foundry, Lawrence Berkeley National Laboratory, One Cyclotron Road, Berkeley, California, 94720 USA</i>	12:30-12:45	<b>Stretchable sensor arrays via laser direct write</b> A. Palla-Papavlu <sup>1</sup> , T. Lippert <sup>2</sup> , M. Dinescu <sup>1</sup> , A. Wokaun <sup>2</sup> <sup>1</sup> National Institute for Lasers, Plasma, and Radiation Physics, Romania <sup>2</sup> Paul Scherrer Institut, PSI-Villigen, Switzerland	12:30-13:00 INVITED	<b>Control of Exciton States and Valley Polarization in Single Layers of Transition Metal Dichalcogenides</b> G. Kioseoglou <i>University of Crete, Greece</i>
12:45-13:00	<b>Structural, morphological and In-Line Optical characterization of OVPD deposited organic small molecule thin films</b> A. Papamichail, G. Nomikos, M. Chatzidis, A. Laskarakis, S. Logothetidis <i>Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece</i>	12:45-13:00	<b>Characterisation of Ink Transfer in Flexography For Flexible Organic Electronics Applications</b> Foulston, S., Beynon, D., Deganello, D., Gethin D., Claypole, T. <i>Welsh Centre of Printing and Coating (WCPC), Swansea University, UK</i>		
13:00-13:30 INVITED	<b>Applications of Printable and organic electronics in Automotive</b> A. Tomar <i>Jaguar Land Rover, IDL (International Digital Lab), Warwick University, Coventry, UK</i>	13:00-13:15	<b>Organic Field-Effect Transistor fabricated by means of large area techniques: towards all inkjet-printed low voltage OFETs</b> S. Conti, S. Lai, P. Cosseddu, A. Bonfiglio <i>Dept. of Electrical &amp; Electronic Engineering, University of Cagliari, Italy</i>	13:00-13:15	<b>WSe2 Light-Emitting van der Waals Heterostructures in Magnetic Fields</b> J. Binder <i>Laboratoire National des Champs Magnetiques Intenses, France</i>
		13:15-13:30	<b>Flexible nanosensors for multiplexed analyte detection and its uncertainty assessment</b> P. Kovur, K. Krishna Mohan, C. Montemagno <i>Ingenuity Lab, Dept. of Chemical and Materials Engineering, University of Alberta, Canada</i>	13:15-13:30	<b>Two dimensional transition metal chalcogenides and reduced graphene oxide hybrids for Supercapacitor applications</b> C. Rout <i>Indian Institute of Technology Bhubaneswar, India</i>

13:30 – 15:00	<b>LUNCH BREAK – NETWORKING</b> ISFOE17 Posters 1
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15:00 – 17:30	<b>Workshop on OPVs &amp; Perovskite PV 2 (Room: Timber Hall 1)</b> Chairs: E. Lidorikis, <i>University of Ioannina, Greece</i>				
15:00-15:30 KEYNOTE	<b>Ultrafast Spectroscopy of Organic Photovoltaics Materials</b> M. Pchenitchnikov <i>Faculty of Science and Engineering, Univ. of Groningen, The Netherlands</i>	15:30 – 17:30	<b>Workshop on OTFTs, Sensors &amp; Circuits 2 (Room : Timber Hall 2)</b> Chairs: D. Barbero, <i>Umeå Universitet, Sweden</i>	15:30 – 17:30	<b>Workshop on Graphene &amp; 2D Materials 3 (ISFOE17 &amp; NN17_W5)</b> Dock Six 2 Chair: E. M. Pechlivi, <i>OET, Greece</i>
15:30-16:00 INVITED	<b>Intermolecular Charge-Transfer States for Organic Photovoltaics and Photodetection</b> K. Vandewal <i>Dresden Integrated Center for Applied Physics and Photonic Materials (IAPP), Technische Universität Dresden, Germany</i>	15:30-16:00 INVITED	<b>Multicomponent organic blend semiconductors for thin-film transistor applications</b> T. D. Anthopoulos <sup>1,2</sup> <sup>1</sup> Division of Physical Sciences and Engineering, King Abdullah University of Science and Technology, Kingdom of Saudi Arabia <sup>2</sup> Department of Physics, Imperial College London, London SW7 2AZ, U.K.	15:30-16:00 INVITED	<b>Graphene-Silicon Schottky diodes for fast and broadband photodetection</b> T.J. Echtermeyer <i>School of Electrical &amp; Electronic Engineering, University of Manchester, Manchester, UK</i>
16:00 – 16:15 PROJECT	<b>MatHero: New materials for highly efficient and reliable organic solar cells - A project conclusion -</b> H. Krüger <sup>1</sup> , M. Della Pirriera <sup>2</sup> , C. L. Chochos <sup>3</sup> , J. Winkel <sup>4</sup> , S. Cros <sup>5</sup> , M. Hidalgo <sup>6</sup> , C. Sprau <sup>7</sup> , A. Colsmann <sup>7</sup> <i>1 Fraunhofer IAP, Germany, 2 Leitax, Barcelona, Spain, 3 Advent Technologies SA, Greece, 4 Eight19 Ltd, UK, 5 CEA, France, 6 Arkema, France, 7 Light Technology Institute, KIT, Germany</i>	16:00 – 16:30 INVITED	<b>High-performance InGaZnO TFTs for flexible analogue systems on plastic substrates</b> N. Müntenrieder <i>Sensor Technology Research Centre, University of Sussex, UK</i>	16:00 – 16:30 INVITED	<b>Properties of Graphene/Polymer Nanostructured Systems through Atomistic Simulations</b> A. Rissanou <sup>1</sup> , P. Bačová <sup>1</sup> , V. Harmandaris <sup>1,2</sup> <i>1. Institute of Applied and Computational Math. IACM-FORTH, Crete, Greece</i> <i>2. Department of Mathematics and Applied Mathematics, University of Crete, Heraklion, Crete, Greece</i>
16:15 – 16:30	<b>CPDTPD-Based Low Bandgap Polymers with Enhanced Dielectric Constants for Organic Photovoltaics</b> J. Brebels <sup>1</sup> , J. Douvogianni <sup>2</sup> , J. C. Hummelen <sup>2</sup> , D. Vanderzande <sup>1</sup> , W. Maes <sup>1</sup> <sup>1</sup> DSOS, IMO-IMOMEC, Hasselt University, Belgium, <sup>2</sup> Univ. Groningen, The Netherlands				

16:30 – 16:45	<b>P3HT based PV modules with power conversion efficiencies of 5% processed by industrial scalable methods</b> F. Machui <sup>1</sup> , S. Strohm <sup>1</sup> , S. Langner <sup>2</sup> , Kubis <sup>1</sup> , H.-J. Egelhaaf <sup>1</sup> , C. J. Brabec <sup>12</sup> <sup>1</sup> ZAE Bayern Solar Factory of the Future, Energy Campus Nürnberg, Germany <sup>2</sup> Institute of Materials for Electronics Energy Technology, Univ. Erlangen-Nürnberg, Germany	16:30 – 17:00 INVITED	<b>Fully printed polymer field-effect transistors on tattoo-paper: a strategy for ingestible electronics</b> <b>M. Caironi</b> Center for Nano Science and Technology @PoliMi, Istituto Italiano di Tecnologia, Via Pascoli, 70/3, 20133 Milano, Italy	16:30 – 16:45	<b>Ag/Cu Bimetallic Nanoparticle - Graphene Composites with Enhanced Antibacterial Performance</b> <b>G. N. Karanikolos</b> Demokritos National Research Center, Greece
16:45 – 17:00	<b>Fluorescent light detector combining a fully inkjet printed organic photodiode and a novel inkjet printable light filter based on the surface plasmon resonance of silver nanoparticles</b> F.Kemper <sup>1,2</sup> , E. Beckert <sup>1</sup> , R. Eberhardt <sup>1</sup> , A. Tünnermann <sup>1,2</sup> <sup>1</sup> Fraunhofer IOF, Germany, <sup>2</sup> IAP, Abbe Center of Photonics, Fr. Sch. Univ. Jena, Germany			16:45 – 17:00 PROJECT	<b>Gladiator Project: An overview</b> <b>E. M. Pechlivani</b> Organic Electronic Technologies P.C, Thessaloniki, Greece
17:00 – 17:15	<b>How Nanomorphology Impacts the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics</b> E. M. Speller <sup>1</sup> , J. D. McGettrick <sup>1</sup> , B. Rice <sup>2</sup> , A. M. Telford <sup>2</sup> , Harrison K. H. Lee <sup>1</sup> , C. H. Tan <sup>3</sup> , C. S. De Castro <sup>1</sup> , M. L. Davies <sup>1</sup> , Trystan M. Watson <sup>1</sup> , J. Nelson <sup>2</sup> , J. R. Durrant <sup>1,3</sup> , Z. Li <sup>1</sup> , W. C. Tsoi <sup>1</sup> <sup>1</sup> SPECIFIC, College of Engineering, Swansea University, Swansea, UK, <sup>2</sup> Dept Physics & Centre Plastic Electronics, <sup>3</sup> Dept Chemistry & Centre Plastic Electronics, Imperial College London, UK	17:00 – 17:30 INVITED	<b>A route to hierarchical control in artificial intelligent systems: memristors with optically tunable STDP synaptic plasticity</b> <b>N. T. Kemp</b> University of Hull, UK	17:00 – 17:15	<b>Functionalization of Graphene on Electrodeposited Cu: surface-enhanced Raman scattering</b> <b>I. Fekas</b> Aristotle University of Thessaloniki, Greece
17:15 – 17:30	<b>Adhesion optimization within organic photovoltaic devices and its influence along encapsulation and aging</b> <b>S. Juillard<sup>1,2,3,4</sup>, E. Planès<sup>1,2,3</sup>, M. Matheron<sup>2,4</sup>, S. Berson<sup>2,4</sup>, L. Flandin<sup>1,2,3</sup></b> <sup>1</sup> Université Savoie Mont Blanc, Chambéry, <sup>2</sup> Univ. Grenoble Alpes, INES, <sup>3</sup> CNRS, LEPMI, Grenoble <sup>4</sup> CEA, LITEN, Dept Solar Technologies, France			17:15 – 17:30	<b>Insights on the growth mechanisms of CVD graphene by in-situ Spectroscopic Ellipsometry</b> <b>A. Zachariadis, A. Laskarakis, S. Logothetidis</b> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece
17:30 – 17:45 YRA Candidate	<b>Benzodithiophene-quinoxaline copolymers for organic solar cells: from structure design to green synthesis and processing</b> C. Sprau <sup>1</sup> , D. Zimmermann <sup>2</sup> , C. L. Chochos <sup>3,4</sup> , H. Krüger <sup>2</sup> , A. Colsmann <sup>1</sup> <sup>1</sup> Karlsruhe Inst. Technology (KIT), Light Technology Institute (LTI), Germany, <sup>2</sup> Fraunhofer Institute for Applied Polymer Research, Potsdam, Germany, <sup>3</sup> Advent Technologies S.A., Patra, Greece, <sup>4</sup> Department of Materials Science Engineering, Univ. Ioannina, Greece	17:30 – 17:45	<b>Flexible Parylene-C based memory devices for sensing applications</b> G. Casula, P. Cosseddu, A. Bonfiglio Dept. of Electrical & Electronic Engineering, University of Cagliari, Italy		
18:00 – 18:30 <b>Coffee Break</b> <b>ISFOE17 Posters 1 – Exhibition – Networking - EXPO FORUM 2</b>					
18:30 - 20:30 <b>PLENARY SESSION NANOTEXNOLOGY 2017 (Room: Grand Petra)</b>					
18:30 – 19:00 <b>Introduction by Prof. S. Logothetidis, ISFOE17 &amp; NN17 Chairman</b>					
19:00 – 19:30 <b>PLENARY</b> <b>The Use of Dopants to Modulate the Properties of Organic Semiconductors, 2D Materials and Electrodes</b> <b>Seth R. Marder</b> School of Chemistry and Biochemistry, School of Materials Science and Engineering, and Center for Organic Photonics and Electronics, Georgia Institute of Technology, Atlanta, USA					
19:30 – 20:00 <b>PLENARY</b> <b>Metal halide perovskites: a new class of semiconductors for photovoltaic and optoelectronic devices</b> <b>Henry J. Snaith</b> University of Oxford, UK					
20:00 – 20:30 <b>PLENARY</b> <b>The Antikythera Mechanism: Decoding an astonishing 2nd century BCE astronomical computer</b> <b>Ioannis H. Seiradakis</b> Professor Emeritus, Aristotle University, Department of Physics, /Section of Astrophysics, Astronomy & Mechanics, GR-541 24 Thessaloniki, Greece					
21:00 <b>DRINKS &amp; OFFICIAL DINNER (ISFOE17 &amp; NN17) PORTO PALACE CONFERENCE CENTRE &amp; HOTEL - ROOF GARDEN</b>					

Wednesday 5 July 2017			
08:00	<b>Registration</b>		
09:00–11:00	<b>Workshop on OLAE Materials 5 (Room: Timber Hall 1)</b> Chair: E. Mekeridis, OET, Greece		
09:00-09:30 KEYNOTE	<b>Direct observation of localized charge transfer states by photothermal deflection spectroscopy</b> F. So <sup>1</sup> , S.K. So <sup>2</sup> <sup>1</sup> Dept of Materials Science Engineering, N. Carolina University, USA <sup>2</sup> Dept Physics & Institute Advanced Materials, Hong Kong Baptist University, China	09:30 - 11:00	<b>Workshop on Graphene &amp; 2D Materials 4 (ISFOE17 &amp; NN17_W5) Room: Crystal Hall</b> Chairs: A. di Carlo, University of Rome Tor Vergata, Italy
09:30-10:00 INVITED	<b>Towards Graphene-based Printed Electronics</b> P. Frantz Haydale Limited, Thailand	09:30-10:00 INVITED	<b>2D materials as building blocks in solution processable hybrid solar cells</b> K. Petridis <sup>1,3</sup> , E. Kymakis <sup>2,3</sup> <sup>1</sup> Department of Electronic Engineering of T.E.I. of Crete, Chania, Greece, <sup>2</sup> Department of Electrical Engineering of T.E.I. of Crete, Heraklion, Greece, <sup>3</sup> Nanomaterials & Advanced Electronics Group, T.E.I. of Crete, Heraklion, Greece
10:00 –10:15	<b>Ultrathin, flexible multimodal sensor based on organic field effect transistor for tactile sensing applications</b> F. Viola, P. Cosseddu, A. Bonfiglio Department of Electrical and Electronic Engineering, University of Cagliari, Cagliari, Italy	10:00 –10:30 INVITED	<b>Soft Processing for Nano Carbons: Direct Fabrication of Functionalized Graphenes and Their Hybrids Inks via Submerged Liquid Plasma [SLP] and Electrochemical Exfoliation [ECE] under Ambient Conditions</b> M. Yoshimura, J. Senthilnathan, K. SanjeevaRao Promotion Centre for Global Materials Research (PCGMR), Dept. of Material Science and Engineering, National Cheng Kung University, Tainan, Taiwan
10:15-10:30	<b>Hybrid polymer-CNT films to obtain flexible modules for thermoelectric applications</b> C. M. Gómez1, M. Culebras1, J. F. Serrano-Claumarchirant1, I. Brotons1, A. Cantarero2, J. C. Grunlan3 <sup>1</sup> Materials Science Institute, University of Valencia, Spain, <sup>2</sup> Molecular Science Institute, University of Valencia, Spain <sup>3</sup> Department of Mechanical Engineering, Texas A&M University, USA		
10:30–10:45	<b>A low voltage, flexible, organic circuit for the readout of organic transistor based X-Rays sensors</b> S. Lai1, G. Casula1, M. Barbaro1, P. Cosseddu1, L. Basiricò2, A. Ciavatti2, B. Fraboni2, A. Bonfiglio1 <sup>1</sup> Department of Electrical and Electronic Engineering, University of Cagliari, Cagliari, Italy <sup>2</sup> Department of Physics and Astronomy, University of Bologna, Bologna, Italy	10:30–10:45	<b>A new method of the synthesis of high quality graphene on silicon carbide</b> P. Ciochoń Jagiellonian University, Poland
10:45–11:00	<b>Reduction of contact resistance in organic thin film transistors</b> H. Kim Korea Institute of Industrial Technology (KITECH), Korea	10:45–11:00	<b>First Investigation of N-Doped Amorphous Silicon-Graphene Interfaces for Flexible High Frequency Heterojunction Transistors</b> C. Strobel1, C.A. Chavarin2, J. Kitzmann2, G. Lupina2, C. Wenger2, M. Albert1, J.W. Bartha1 <sup>1</sup> Technische Universität Dresden, Semiconductor and Microsystems Technology Laboratory, 01062 Dresden, Germany <sup>2</sup> IHP, Leibniz-Institut für innovative Mikroelektronik, Im Technologiepark 25, 15236 Frankfurt (Oder), Germany
11:00– 11:30	<b>Coffee Break</b> <b>ISFOE17 Posters 2 – Exhibition – Networking</b> <b>EXPO FORUM 3</b>		
11:30-13:30	<b>Session on OLEDs (Room : Timber Hall 1)</b> Chair: M. Gioti, LTFN, AUTH, Greece	12:00-13:30	<b>Workshop on Graphene 5 (ISFOE17+NN17) (Room : Crystal Hall)</b> Chairs: G. Kioseoglou University of Crete, Greece
11:30-12:00 INVITED	<b>Next Generation Technologies for AMOLED Displays</b> G. Rajeswaran Grantwood Technologies Inc, New York, USA	11:30-12:00 INVITED	<b>High-mobility Graphene for High frequency and THz electronics</b> A. Lombardo Cambridge Graphene Center, University of Cambridge, UK
12:00-12:30 INVITED	<b>A new Driving Methodologies and Circuits for Improved AMOLEDs</b> R. Flores , D.E. Ioannou ECE Dept., George Mason University, Fairfax, USA	12:00-12:30 INVITED	<b>Graphene Biosensors for Ultrasensitive and Reproducible Detection of Disease Biomarkers</b> G. Pan Wolfson Nanomaterials & Devices Laboratory, Plymouth University, UK
12:30-12:45 YRA Candidate	<b>Paving Way for Efficient, Metal-Free, and Environmentally Green Emissive Devices</b> P. Lundberg, E. M. Lindh, S. Tang, L. Edman The Organic Photonics and Electronics Group, Department of Physics, Umeå University, Umeå, Sweden	12:30-12:45	<b>Membranes Combining Polymers with Graphene-based Materials</b> GP Simon Monash University, Australia
12:45-13:00	<b>Implementation of printing in fabrication of hybrid light emitting diodes</b> N. Perinka <sup>1</sup> , E. Martinez-Ferrero <sup>2</sup> , M. Sanz <sup>3</sup> Photonic Line at the Printed Electronic & Embedded Devices Unit, Eurecat Barcelona, Spain	12:45-13:00	<b>Coal Derived Graphene Quantum Dots A Look into the Future</b> M. Gross Dotz Nano Ltd., Australia
13:00-13:15	<b>Fully printed OLEDs with tailored light emitting colors</b> D. Kokkinos <sup>1,2</sup> , M. Gioti <sup>1</sup> , S. Logothetidis <sup>1</sup> <sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece <sup>2</sup> Organic Electronic Technologies (OET), Greece	13:00-13:15	<b>Effect of plasma functionalized GNP's on the properties of ink</b> A. Claypole, J. Claypole, S. J. Potts, D. Beynon, T. Claypole, D. Gethin Welsh Centre for Printing and Coating, Bay Campus Swansea University, Crymlyn Burrows, Swansea, UK

<b>13:15-13:30</b>	<b>Device characteristics of inverted organic light-emitting diodes depending on electron injection and transport materials</b> H. Lee <sup>1</sup> , M.-J. Maeng <sup>2</sup> , J.-A. Hong <sup>2</sup> , R. Najnin <sup>2</sup> , J. Moon <sup>1</sup> , B.-G. Yu <sup>1</sup> , Y. Park <sup>2</sup> , N. S. Cho <sup>1</sup> <sup>1</sup> Flexible Device Research Group, Electronics and Telecommunications Research Institute, Republic of Korea <sup>2</sup> Dept. Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, Republic of Korea	<b>13:15-13:30 PROJECT</b>	<b>Enhancing the application of graphene through large-scale production</b> L. González Bermúdez GrapheneTech S.L, Spain
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<b>13:30-15:00</b>	<b>Lunch Break</b> <b>ISFOE17 Posters 2 (NN17 W4, W5 POSTERS) – Exhibition - Networking</b>		
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<b>15:00 – 17:45</b>	<b>Workshop on Smart Textiles, Wearables &amp; IoT (Room: Timber Hall 1)</b> Chair: G. Priniotakis, Technical University, Athens, Greece	<b>15:00 – 18:00</b>	<b>Workshop on Biosensors &amp; Bioelectronics 1 (ISFOE17 + NN17 W4) (Room: Crystal Hall)</b> Chairs: P. Baptista, Universidade Nova de Lisboa, Portugal
<b>15:00-15:30 INVITED</b>	<b>Smart Textiles &amp; Wearables</b> L. van Langenhove University of Ghent, Belgium	<b>15:00-15:30 INVITED</b>	<b>Photoconverters with Organic Semiconductors and Photosynthetic Enzymes</b> G. M. Farinola <sup>1</sup> , R. Ragni <sup>1</sup> , F. Milano <sup>2</sup> , A. Operamolla <sup>1</sup> , S. La Gatta <sup>1</sup> , O. Hassan Omar <sup>3</sup> , A. Agostiano <sup>1,2</sup> , M. Trotta <sup>2</sup> <sup>1</sup> Dip. di Chimica, Università degli Studi di Bari "Aldo Moro", Bari, Italy, <sup>2</sup> CNR IPCF, Bari, Italy, <sup>3</sup> CNR ICCOM, Bari, Italy
<b>15:30-16:00 INVITED</b>	<b>Studying Textile Field Effect Transistors using TCAD simulation tools</b> G. Priniotakis <sup>2</sup> , E. Louris <sup>1,2</sup> , L. Van Langenhove <sup>3</sup> , and D. Tassis <sup>1</sup> <sup>1</sup> Aristotle University of Thessaloniki, School of Physics, Department of Solid State Physics, Greece <sup>2</sup> Piraeus University of Applied Sciences, School of Engineering, Department of Textile Engineering, Greece <sup>3</sup> Ghent University, Faculty of Engineering and Architecture, Department of Textiles, Belgium	<b>15:30-16:00 INVITED</b>	<b>Biorecognition and transduction in ultrasensitive label-free organic biosensors</b> F. Biscarini, C. A. Bortolotti, M. Berto, M. Di Lauro, M. Giordani, S. Benaglia Department of Life Sciences, Università di Modena e Reggio Emilia, Italy
<b>16:00-16:30 INVITED</b>	<b>Film substrates, stretchable conductive ink and smart textiles based on concept "Innovative materials enabling device revolution"</b> Y. Koseki TOYOBO Co., Ltd., Osaka, Japan	<b>16:00-16:30 INVITED</b>	<b>Interfacing Organic Electrochemical Devices with Biological Systems</b> C. Pitsalidis Ecole Mines de Saint-Etienne, France
<b>16:30-16:45</b>	<b>Solar Glasses: A Case Study on Semitransparent Organic Solar Cells for Self-Powered, Smart Wearable Devices</b> D. Landerer <sup>1,2</sup> , D. Bahr <sup>1,2</sup> , H. Röhm <sup>1,2</sup> , M. Koppitz <sup>1,2</sup> , A. Mertens <sup>1</sup> , F. Manger <sup>1,2</sup> , F. Denk <sup>1</sup> , M. Heidinger <sup>1</sup> , T. Windmann <sup>3</sup> , A. Colsmann <sup>1,2</sup> <sup>1</sup> Light Technology Institute, Karlsruhe Institute of Technology (KIT), Germany <sup>2</sup> Material Research Center for Energy Systems (MZE), KIT, Germany <sup>3</sup> Stabstelle Mediation, Karlsruhe Institute of Technology (KIT), Germany	<b>16:30-16:45</b>	<b>The Influence of Crosslinking on the Optical Properties of Poly(p-phenylene ethynylene) Conjugated Polymer Nanoparticles for Bioimaging</b> Y. Braeken Institute for Materials Research, Belgium
<b>16:45-17:00 PROJECT</b>	<b>Developments towards a miniaturized smart system for light stimulation and monitoring of wound healing-EU Project MEDILIGHT</b> D. Manassis <sup>1</sup> , M. Seckel <sup>1</sup> , K. Michaelides <sup>2</sup> , D. Kallweit <sup>3</sup> , A. Klapczynski <sup>4</sup> , N. Kuch <sup>4</sup> , N. Gretz <sup>4</sup> , J. Steinbrunn <sup>5</sup> , M. Bouschbacher <sup>5</sup> , R. Waite <sup>6</sup> and R. Fryček <sup>7</sup> , <sup>1</sup> Technical University Berlin, Germany, <sup>2</sup> SignalGeneriX Ltd, Limassol, Cyprus, <sup>3</sup> CSEM, Switzerland, <sup>4</sup> Medical Research Center, Ruprecht-Karls-Univ. Heidelberg, Germany, <sup>5</sup> Uargo Research Development and Innovation, France, <sup>6</sup> Microsemi Semiconductor Limited, Monmouthshire, UK, <sup>7</sup> AMIRES s.r.o, Prague, Czech Republic.	<b>16:45-17:00</b>	<b>Bimodal functioning of a mesoporous, light sensitive polymer/electrolyte interface</b> G. Tullii Istituto Italiano di Tecnologia, Italy
<b>17:00-17:15</b>	<b>Screen-printed textile electrodes based on PEDOT:PSS for biopotential recording</b> A. Achilli <sup>1</sup> , D. Pani <sup>1</sup> , I. Gualandi <sup>2</sup> , B. Fraboni <sup>2</sup> , A. Bonfiglio <sup>1</sup> <sup>1</sup> DIEE, Department of Electrical and Electronic Engineering, University of Cagliari, Italy <sup>2</sup> Department of Physics and Astronomy, University of Bologna, Bologna, Italy	<b>17:00-17:15</b>	<b>Laser evaporation of polymers for the fabrication of drug-delivery systems</b> M. Filipescu, A. Palla Papavlu, M. Dinescu National Institute for Lasers, Plasma, and Radiation Physics, Romania
		<b>17:15-17:30</b>	<b>Tunable nanostructured hydrogels as biosensor for direct viral biomarker detection</b> T. M. Caputo University of Naples Federico II, Italy

<b>20:00</b>	<b>NANOTECHNOLOGY 2017 BEACH PARTY at the Beach Bar RIVIERA</b> <b>Start of transport from Porto Palace Hotel at 18:00, Start of Return from Beach Bar at 23:00</b>		
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Thursday 6 July 2017			
09:00 – 11:00	<b>Workshop on OPVs &amp; Perovskite PVs 3 (Room: Crystal Hall)</b> Chair: A. Laskarakis, LTFN, AUTH, Greece	09:00–11:00	<b>Workshop on Biosensors &amp; Bioelectronics 2 (ISFOE17 + NN17 W4) (Room: Timber Hall 2)</b> Chair: Ch. Pitsalidis, Ecole Nationale Supérieure des Mines, CMP-EMSE, France, S. Inal, KAUST, Saudi Arabia
09:00 – 09:30 INVITED	<b>Imaging of Inhomogeneities and Defects in Organic Solar Cells</b> H. Hoppe <sup>1,2</sup> <sup>1</sup> Center for Energy and Environmental Chemistry Jena (CEEC Jena), Friedrich Schiller Univ. Jena, Germany <sup>2</sup> Laboratory of Organic and Macromolecular Chemistry (IOMC), Friedrich Schiller Univ. Jena, Germany	09:00 – 09:30 INVITED	<b>Reversible proton exchange reactions in functionalised electrodes and a prototype strategy to control the pH in Miniaturised environments</b> C. P. Garcia Luxembourg Institute of Science and Technology (LIST), Luxembourg
09:30 – 10:00 INVITED	<b>Solution Processed Organic Photovoltaics Go Green: PCE&gt;10% with Proven Reliability</b> P. Tan Raynergy Tek Incorporation, France	09:30 – 10:00 INVITED	<b>RNA detection via BioCode spectral codification</b> P. Baptista Universidade Nova de Lisboa, Portugal
10:00 – 10:15 YRA Candidate	<b>Inkjet printed silver nanowire electrodes for visually non-obstructive and efficient semitransparent organic solar cells and modules</b> P. Maisch <sup>1</sup> , K.C.Tam <sup>1</sup> , H.-J. Egelhaaf <sup>1</sup> , H. Scheiber <sup>2</sup> , E. Maier <sup>2</sup> and C.-J. Brabec <sup>1,3</sup> <sup>1</sup> ZAE Bayern – Solar Factory of the Future, Germany <sup>2</sup> Durst Phototechnik, Digital Technology GmbH, Linz, Austria, <sup>3</sup> i-MEET, Friedrich-Alexander University Erlangen-Nürnberg, Germany	10:00 – 10:15	<b>Gold nanorods-based plasmonic label-free biosensor for early det. of LAMP-amplified eDNA of invasive species</b> J. R. Guerreiro International Iberian Nanotechnology Laboratory, Portugal
10:15 – 10:30	<b>Modulating an electron barrier at ITO/organic semiconductor junctions via molecular adsorption and its effect on organic solar cells performance</b> Hela Sasson <sup>1</sup> , F. Dvinyatin <sup>2</sup> , Y. Furmansky <sup>2,3,4</sup> , P. Troshin <sup>2</sup> , N. Ashkenasy <sup>3,4</sup> , and I. Visoly-Fisher <sup>1,4</sup> <sup>1</sup> Dept. Solar Energy and Environmental Physics, Ben-Gurion University of the Negev, Israel <sup>2</sup> Institute of Problems of Chemical Physics of Russian Academy of Sciences, Russia <sup>3</sup> Department of Materials Engineering, Ben-Gurion University of the Negev, Israel <sup>4</sup> Ilse Katz Institute for Nanoscale Science and Technology, Ben-Gurion University of the Negev, Israel	10:15 – 10:30	<b>Potential application of engineered hydrogels, realized by microfluidics, for biomarkers detection</b> A. Mazzarotta University of Naples Federico II, Naples, Italy
10:30– 10:45	<b>Can we achieve efficient charge separation in organic solar cells through incoherent hopping of tightly bound, cold CT states?</b> S. Athanasopoulos <sup>1</sup> , S. Tscheuschner <sup>2</sup> , H. Bässler <sup>3</sup> , A. Köhler <sup>2,3</sup> <sup>1</sup> Departamento de Física, Universidad Carlos III de Madrid, Spain, <sup>2</sup> Experimental Physics II, University of Bayreuth, Germany, Bayreuth Institute of Macromolecular Research, University of Bayreuth, Germany	10:30– 10:45	<b>Active Surfaces": Biomolecule - Polymer Membranes For Efficient Sensing Of Phenols</b> V. Mikhalevich University of Basel, Switzerland
10:45 – 11:00	<b>Characterization and improvement of p-type dye sensitized solar cells</b> N. Marinakis, M. Willgert, E. C. Constable, C. E. Housecroft Department of Chemistry University of Basel, Switzerland	10:45 – 11:00	<b>Direct Detection of Genomic DNA by Nanoparticle-Enhanced Surface Plasmon Resonance Imaging: Properties and Role of Functionalized Gold Nanoparticles</b> G. Spoto Consorzio Interuniversitario Istituto Nazionale Biostrutture e Biosistemi, I.N.B.B., Italy

11:00 – 11:30	<b>Coffee Break</b> <b>ISFOE17 Posters 2 – Exhibition - Networking</b>
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11:30– 13:30	<b>Workshop on OPVs 4 (Room: Crystal Hall)</b> Chairs: A. Laskarakis, LTFN, AUTH, Greece	11:30– 13:30	<b>Workshop on Biosensors &amp; Bioelectronics 3 (ISFOE17 + NN17 W4) (Room: Timber Hall 2)</b> Chairs: C.P. Garcia, LIST, Luxembourg	11:30– 13:30	<b>New Business Development &amp; Commercialization Workshop Special Workshop (Room: Timber Hall 1)</b> Chair: J. Bakouros, Univ. Western Macedonia, Greece
11:30– 12:00 INVITED	<b>Tuning Acceptor Strength in Donor-Acceptor Polymers by pre- and post-polymerisation modification</b> M. Heeney Imperial College London, UK	11:30– 12:00 INVITED	<b>Tailoring Conducting Polymer Scaffolds for Bioelectronics</b> S. Inal KAUST, Saudi Arabia	11:30– 12:00	<b>Prerequisites for Novel Technologies Commercialization</b> P. Giannoules g t Consulting, Germany
12:00– 12:30 INVITED	<b>Donor-acceptor based 'order in disorder' conjugated polymers</b> S. Patil Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore, India	12:00– 12:15	<b>Point-of-Care testing of reduced biothiols relying on paper-based photoreduction of silver halide nanocrystals</b> D. L. Giokas University of Ioannina, Greece	12:00– 12:30	<b>Developing an Entrepreneurial Environment in Academic Settings</b> K. Gus Kousoulas Assistant Vice Chancellor for Research and Economic Development, Louisiana State University, USA
12:30– 13:00 INVITED	<b>Semiconducting:insulating polymer blends: processing, structure and opportunities for the organic electronics field</b> N. Stingelin Imperial College London, UK	12:15– 12:30	<b>The Reliable Measurement of Air Pollutants with Metal Oxide Nanostructured Sensors - Regardless of their Cost</b> A.N. Skouloudis Joint Research Center, European Commission, Italy	12:30– 13:00	<b>The First Commercialization of AMOLED Displays Lessons Learned in the Journey from Invention to Industry</b> G. Rajeswaran Grantwood Technologies Inc, USA
		12:30– 12:45	<b>Morphology Effect on Charge Transport in Doped Bovine Serum Albumin Self-Assembled Monolayers</b> E. Beilis Tel Aviv University Center for Nanoscience and Nanotechnology, Israel		



		12:45-13:00	Wireless innovative sensors network application for health monitoring D.Ulieru SITEX, Romania		
13:00 – 13:15	Versatile Interconnection Layer by Solvent Treatment of PEDOT:PSS Interlayer for Efficient and Air-Processed Organic Tandem Solar Cells M. Prosa <sup>1</sup> , M. Tessarolo <sup>2</sup> , M. Bolognesi <sup>1</sup> , T. Cramer <sup>3</sup> , Z. Chen <sup>4</sup> , A. Facchetti <sup>4</sup> , B. Fraboni <sup>3</sup> , M. Seri <sup>5</sup> , G. Ruani <sup>1</sup> , M. Muccini <sup>1</sup> <i>1 ISMN, CNR, Bologna, Italy, 2 CIRI-MAM, University of Bologna, Italy, 3 Department of Physics and Astronomy, University of Bologna, Italy, 4 Polvera Corporation, USA 5 ISOF, CNR, Bologna, Italy</i>	13:00 – 13:15	Potential Modulation on Total Internal Reflection Imaging Ellipsometry Biosensor G. Jin Chinese Academy of Sciences, China	13:00-13:30	Unique Manufacturing and Commercialization of Organic Photovoltaics by OET E.M Pechlivani Organic Electronic Technologies P.C, Greece
13:15 – 13:30	Detailed understanding of organic electronic devices by integrated modeling and measurement: Application to PV and OLED L. Penninck Fluxim, Switzerland				
<b>13:30 – 15:00 Lunch Break</b> <b>ISFOE17 Poster Session 2 – Exhibition - Networking</b>					
15:00 – 17:30	<b>Workshop on Manufacturing &amp; Laser Technologies 3 (Room: Crystal Hall)</b> Chairs: A. Laskarakis, LTFN, AUTH, Greece		15:00 – 17:30	<b>Workshop on Renewable Energy &amp; Storage (Room: Timber Hall 2)</b> Chairs: I. Monacholias, PPC Renewables, Greece	
15:00 – 15:30 INVITED	Ultrashort pulsed laser surface structuring for organic electronics and tissue engineering E. Stratakis <sup>1,2</sup> <i><sup>1</sup> Institute of Electronic Structure and Laser (IESL), FORTH, Greece, <sup>2</sup> University of Crete, Greece</i>		15:00 – 15:30	Comprehensive Renewable Energy Generation Concepts P. Giannoulas g/t Consulting, Germany	
15:30 – 16:00 INVITED	Sub-wavelength patterning and photonic structuring P. Stavrinou Dept. of Engineering Science, University of Oxford & Lincoln College, UK		15:30 – 16:00	Tilos Project - Technology Innovation for the Local Scale Optimum Integration of Battery Energy Storage I. Kaldellis Head of the Soft Energy Application Lab, Piraeus University of Applied Sciences, Greece	
16:00 – 16:15	Roll-to-Roll manufacturing of Organic Photovoltaics in pilot line with laser patterning and optical metrology for quality control C. Kapnopoulos <sup>1</sup> , E. Mekeridis <sup>2</sup> , S. Tsimikli <sup>2</sup> , A. Laskarakis <sup>1</sup> , S. Logothetidis <sup>1</sup> , <i><sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece, <sup>2</sup> OET, Thessaloniki, Greece</i>		16:00 – 16:20	Nanotechnologies and advanced materials for low-carbon energy technologies: Research and innovation at CEA S. Perraud CEA, FRANCE	
16:15 – 16:30	The use of flexography for the large area printing of functional materials Tim Claypole, Andrea Greenacre, James Claypole, Ben Mogg, David Beynon and David Gethin Welsh Centre for Printing and Coating, Bay Campus Swansea University, Crymlyn Burrows, Swansea, UK		16:20 – 16:40	Materials for energy storage at Leitac: energy challenges-driven innovations and cross-sectorial impact D. Gutierrez LEITAC, Spain	
16:30 – 16:45	Advances in high speed flexible electronics for RFID applications J. Semple <sup>1</sup> , D. Georgiadou <sup>1</sup> , G. Wyatt-Moon <sup>1</sup> , T. D. Anthopoulos <sup>1,2</sup> <i>1 Department of Physics and Centre for Plastic Electronics, Imperial College London, London SW7 2AZ, UK 2 Materials Science &amp; Engineering, Div. Physical Sciences &amp; Engineering, KAUST, Kingdom of Saudi Arabia</i>		16:40 – 17:00	Renewable energy systems and products towards higher efficiency B. Fillon Technical Institute Innovation Plasturgie Composites (IPC), FRANCE	
16:45 – 17:00	Fabrication of Organic Photovoltaic Devices at a Unique OVPD Pilot Line with High-Volume manufacturing M. Chatzidis, G. Nomikos, A. Papamichail, A. Laskarakis, S. Logothetidis Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Thessaloniki, Greece		17:00 – 17:30	Round Table "Nanotechnologies, materials the keys for better renewable energy systems and products" Moderator B. Fillon	
17:00 – 17:15	Predicting Functional Print Performance by Advanced Rheometric Techniques J. M. Claypole, T. C. Claypole Welsh Centre for Printing and Coating, Swansea University, Swansea, UK				
17:15 – 17:30					
<b>17:30 – 18:30 Young Researcher Award for Best Oral and Best Poster Presentations - Closing Remarks and Discussion - End of ISFOE17</b>					

## POSTERS

POSTER GROUP 1 Monday 3 July – Thursday 6 July	
OPVs & Perovskite PVs	
P1-1	<p><b>Organic-Inorganic Double Charge Extraction Layer for The Stable and Efficient Flexible Perovskite Solar Cells</b> Byeong Jo Kim<sup>1</sup>, Mincheol Kim<sup>2,3</sup>, Hyun Suk Jung<sup>1</sup> 1 School of Advanced Materials Science &amp; Engineering, Sungkyunkwan University, Korea 2 Department of Mechanical and Aerospace Engineering, Seoul National University, Seoul, Republic of Korea 3 Global Frontier Center For Multiscale Energy System, Seoul National University, Seoul, Republic of Korea</p>
P1-2	<p><b>Functionalized-polyvinylcarbazole hole transporting material for efficient and stable perovskite solar cells</b> C. Geffroy<sup>1,2,3</sup>, E. Cloutet<sup>1</sup>, C. Olivier<sup>2</sup>, T. Toupance<sup>2</sup>, H. Segawa<sup>3</sup>, G. Hadziioannou<sup>1</sup> 1 Laboratoire de Chimie des Polymères Organiques, UMR5629, Univ. Bordeaux, CNRS, Bordeaux-INP, 16 avenue Pey Berland, 33607 Pessac, France. 2 Institut des Sciences Moléculaires, UMR5255, Univ. Bordeaux, CNRS, 351 cours de la Libération, 33405 Talence, France. 3 Research Center for Advanced Science and Technology, University of Tokyo, 3-8-1 Komaba, Meguro-ku, Tokyo 153-8904, Japan.</p>
P1-3	<p><b>Hybrid small-molecule solar cells with fullerenes as the light absorbing material</b> Wai-Yu Sit<sup>1</sup>, Flurin Eisner<sup>1</sup>, Prof. Thomas Anthopoulos<sup>1,2</sup> [1] Department of Physics and Centre for Plastic Electronics, Blackett Laboratory, Imperial College London Exhibition Road, London SW7 2BW, U.K. [2] Division of Physical Sciences and Engineering, King Abdullah University of Science and Technology Thuwal 23955-6900, Saudi Arabia</p>
P1-4	<p><b>Thermal degradation mechanism of PCDTBT:PCBM organic photovoltaic</b> Jaeyoul. Kim, Hyunho. Lee, Jiho Sohn, Changhee. Lee* Department of Electrical and Computer Engineering, Seoul National University 1 Gwanak-ro, Gwanak-gu, Seoul 08826, South Korea</p>
P1-5	<p><b>Shelf-Lifetime Stability of Planar ZnO/MAPbI<sub>3</sub>-Based Perovskite Solar Cells</b> R.T. Ginting and J.-W. Kang* Department of Flexible and Printable Electronics, Polymer Materials Fusion Research Center, Chonbuk National University, Republic of Korea</p>
P1-6	<p><b>Organic solar cell integration in building awnings</b> Y. Panayiotatos<sup>1</sup>, D. Dimisetsis<sup>1</sup>, A. Chroneos<sup>2</sup>, J.K. Kaldellis<sup>3</sup> <sup>1</sup> Mechanical Engineering Department, Piraeus University of Applied Sciences, Greece <sup>2</sup> Faculty of Engineering, Environment and Computing, Coventry University, United Kingdom <sup>3</sup> Soft Energy Applications and Environmental Protection Laboratory, Piraeus University of Applied Sciences, Greece</p>
P1-7	<p><b>Construction of a smart, energy autonomous greenhouse with integrated OPVs</b> C. Zisis<sup>1</sup>, V. Matskos<sup>2</sup>, S. Tsimikli<sup>2</sup>, S. Logothetidis<sup>1</sup> <sup>1</sup> Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology) Aristotle University of Thessaloniki, Greece <sup>2</sup> Organic Electronic Technologies (OET), Greece</p>
P1-8	<p><b>Perovskite Solar cells by Slot – die Coating</b> C. Kamaraki, D. Kokkinos, C. Koutsiaki, K. Stavrou, C. Gravalidis, A.Laskarakis, S. Logothetidis Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology) Aristotle University of Thessaloniki, Greece</p>
P1-9	<p><b>Ab initio study of water adsorption on the silver electrode of an OPV device.</b> E. Sfouggaris, A. Stamateri, S. Logothetidis Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology) Aristotle University of Thessaloniki, Greece</p>
P1-10	<p><b>Synthesis Of Novel Anthracene Derivates and Their Optoelectronic of Applications</b> Y. Topal<sup>1</sup>, A. Kivrak<sup>2</sup> <sup>1</sup> Selçuk University, Chemical Dept., 42100, Konya, Turkey <sup>2</sup> Yüzüncü Yil University, Faculty of Science, Chem. Dept., 65080, Van, Turkey</p>
P1-11	<p><b>Organosilyl/-Germyl Polyoxotungstate Hybrids Used In The Modification Of Ito Surface For Optoelectronic Application</b> Y. Topal<sup>1,2</sup> <sup>1</sup> Selçuk University, Advanced Technology Research and Application Center Konya Turkey <sup>2</sup> Selçuk University, Department of Chemistry, Konya, Turkey</p>
P1-12	<p><b>High Performance Supercapacitor with the Activated Carbon Particle/Polymer Composite</b> Yunseok Jang, Kwang-Young Kim, Jeongdae Cho Department of Printed Electronics, Korea Institute of Machinery &amp; Materials, Daejeon, 305-343, Korea</p>
P1-13	<p><b>Lifetime Study of OPVs In Outdoor and Indoor Conditions</b> A.Myrifotyis<sup>1</sup>, S.Tsimikli<sup>1,2</sup>, M.Giotti<sup>1</sup>, S.Logothetidis<sup>1</sup> 1MNM Lab for Thin Films- Nanobiomaterials-Nanosystems and Nanometrology (LTFN), Aristotle University of Thessaloniki, Greece 2Organic Electronic Technologies P.C. (OET), Greece</p>
POSTER GROUP 2 Monday 3 July – Thursday 6 July	
OLAE Materials	
P2-1	<p><b>Thermal and laser sintering of highly stable inkjet ink consisting of silver nanoparticles stabilized by a combination of a short chain carboxylic acid and a polymeric dispersant</b> A.I. Titkov<sup>1</sup>, I.K. Shundrina<sup>1,2</sup>, R.M. Gadirov<sup>3</sup>, Yu.M. Yukhin<sup>1</sup>, N.Z. Lyakhov<sup>1</sup> 1Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, Kutateladze, 18, Novosibirsk, 630128, Russian Federation 2N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, Siberian Branch of Russian Academy of Sciences, Russian Federation 3Siberian Physical-Technical Institute of Tomsk State University, Novosobornaya 1, Tomsk, 634050, Russian Federation</p>
P2-2	<p><b>Resonance and Surface Enhanced Raman study on the effect of additives in donor-acceptor OPV devices</b> E.Lariou<sup>1</sup>, B.Shamieh<sup>2</sup>, G.L.Frey<sup>2</sup>, S.C.Hayes<sup>1</sup> 1Department of Chemistry, University of Cyprus, 1 University Ave, 2109, Nicosia, Cyprus 2Department of Materials Science and Engineering, Technion – Israel Institute of Technology, Haifa 32000, Israel</p>
P2-3	<p><b>Plasma-polymerized aniline films using atmospheric pressure plasma jets: a comparison of ex-situ and in-situ doping</b> Do Yeob Kim<sup>1</sup>, Choon-Sang Park<sup>2</sup>, Dong Ha Kim<sup>2</sup>, Heung-Sik Tae<sup>2</sup>, Hyung-Kun Lee<sup>1</sup> 1ICT Materials and Components Research Laboratory, Electronics and Telecommunications Research Institute (ETRI), Daejeon 34129, South Korea 2School of Electronics Engineering, College of IT Engineering, Kyungpook National University, Daegu 41566, South Korea</p>
P2-4	<p><b>3D Printed Flexible and High Transconductance Organic Electrochemical Transistors</b> J. Fan<sup>1</sup>, 3, C. Montemagno<sup>2</sup>, 3, M. Gupta<sup>1</sup>, 3 1 Department of Electrical and Computer Engineering 2 Department of Chemical and Material Engineering 3 Ingenuity Lab, University of Alberta, Edmonton, Canada</p>
P2-5	<p><b>Inkjet-Printed Quantum Dot Light Emitting Diodes Employing Various Ink Formulations for High Resolution Display</b> Jongseok Han<sup>1</sup>, Donghyun Ko<sup>1</sup>, Yeosul Park<sup>1</sup>, and Changhee Lee<sup>1*</sup> 1Department of Electrical and Computer Engineering, Inter-University Semiconductor Research Center, Seoul National University, Seoul 08826, Republic of Korea</p>
P2-6	<p><b>Solution-Processed Co-planar Nano-Scale Photodetectors by Adhesion Lithography</b></p>

	Gwenhivir Wyatt-Moon, Dimitra G. Georgiadou, James Semple and Thomas D. Anthopoulos Physics, Imperial College London, The Blackett Laboratory, South Kensington Campus, SW7 2AZ, London
P2-7	<b>Green to Red Electroluminescence from Two Columnar Liquid Crystal Perylene Derivatives</b> J. Eccher <sup>1</sup> , A. C. B. Almeida <sup>2</sup> , T. Cazati <sup>2</sup> , H. von Seggern <sup>3</sup> , H. Bock <sup>4</sup> , I. H. Bechtold <sup>1</sup> <sup>1</sup> Physics Department, Federal University of Santa Catarina, Florianópolis, Santa Catarina, Brazil. <sup>2</sup> Physics Department, Federal University of Ouro Preto, Brazil <sup>3</sup> Department of Electronic Materials, Institute of Materials Science, Technical University of Darmstadt, Germany. <sup>4</sup> Centre de Recherche Paul-Pascal, CNRS - University of Bordeaux, France
P2-8	<b>Simulation analysis of low transient response of organic based photodetectors</b> Amir Hossein Fallahpour <sup>1</sup> , Mina Mirsafaei <sup>2</sup> and Markus Becherer <sup>1</sup> <sup>1</sup> Electrical Engineering and Information Technology, Technical University of Munich, Munich, Germany <sup>2</sup> SDU NanoSYD, Mads Clausen Institute, University of Southern Denmark, Alsion 2, Sønderborg, DK-6400, Denmark
<b>POSTER GROUP 3</b> <b>Monday 3 July – Thursday 6 July</b>	
<b>OTFTs, OLEDs &amp; Sensors, Computational, Commercialization, Smart Textiles, Wearables &amp; IoT</b>	
P3-1	<b>Development of a Roll-to-Roll Evaporation System for Flexible OLED Devices</b> S. Kwon <sup>1</sup> , H. T. Kim <sup>1</sup> , K. H. Woo <sup>1</sup> , D. W. Kang <sup>1</sup> , Y. S. Jang <sup>1</sup> , J. H. Jung <sup>2</sup> , M. S. Kim <sup>2</sup> , M. Y. Lee <sup>2</sup> <sup>1</sup> Department of Printed Electronics, Korea Institute of Machinery & Materials (KIMM) 156 Gajeongbukro, Yuseong, Daejeon 34103, Korea <sup>2</sup> GJM Co., LTD., 43 Dujeonggongdan1ro, Seobuk, Cheonan 31112, Korea
P3-2	<b>Fabrication and characterization of organic dielectric and semiconductor layers via slot-die printing for flexible and transparent OTFTs</b> C. Koutsiaki, D. Kokkinos, C. Kamaraki, K. Stavrou, C. Gravalidis, S. Logothetidis Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology) Aristotle University of Thessaloniki, Greece
P3-3	<b>Organic Field-Effect Transistors based on air-brush sprayed small-molecule:insulating polymer blends with mobilities exceeding 1 cm<sup>2</sup>/Vs</b> T. Kaimakamis <sup>1</sup> , C. Pitsalidis <sup>2</sup> , A. Papamichail <sup>1</sup> , A. Laskarakis <sup>1</sup> , S. Logothetidis <sup>1</sup> , <sup>1</sup> Laboratory for Thin Films – Nanobiomaterials – Nanosystems & Nanometrology (LTFN), Aristotle University of Thessaloniki, Greece <sup>2</sup> Department of Bioelectronics, Ecole Nationale Supérieure des Mines, CMP-EMSE, France
P3-4	<b>Wearable Thermoelectric Materials: Improvement of Thermoelectric Performance of SnSe Nanosheets by control of porosity</b> JH. Kim <sup>1</sup> , H. Ju <sup>1</sup> , MH. Kim <sup>2</sup> <sup>1</sup> Department of Chemical Engineering & Materials Science, Chung-Ang University, Korea <sup>2</sup> Department of Fashion Design, Chung-Ang University, Korea
P3-5	<b>PEDOT: PSS with exfoliated SnSe nanosheets for flexible thermoelectric devices</b> H. Ju <sup>1</sup> , M. Kim <sup>2</sup> , J. Kim <sup>1</sup> <sup>1</sup> Department of Chemical Engineering & Materials Science, Chung-Ang University, Korea <sup>2</sup> Department of Fashion Design, Chung-Ang University, Korea
P3-6	<b>Gas sensor on stretchable yarn coated with reduced graphene oxide for high response to NO<sub>2</sub></b> Hyung-Kun Lee <sup>1</sup> , Yong Ju Yun <sup>2</sup> , Do Yeob Kim <sup>1</sup> and Won G Hong <sup>3</sup> <sup>1</sup> ICT Materials and Components Research Lab, ETRI, South Korea <sup>2</sup> Department of Materials Chemistry and Engineering, Konkuk University, Seoul, South Korea <sup>3</sup> Division of Electron Microscopy Research Group, Korea Basic Science Institute, Daejeon, South Korea
P3-7	<b>Ultrafast Non-Förster Intramolecular Donor–Acceptor Excitation Energy Transfer</b> S. Athanopoulos <sup>1</sup> , L. A. Hernandez <sup>2</sup> , D. Beljonne <sup>3</sup> , S. Fernandez-Alberti <sup>2</sup> , S. Tretiak <sup>4</sup> <sup>1</sup> Departamento de Física, Universidad Carlos III de Madrid, Madrid, Spain <sup>2</sup> Universidad Nacional de Quilmes/CONICET, Bernal, Argentina, <sup>3</sup> Laboratory for Chemistry of Novel Materials, University of Mons, Belgium, <sup>4</sup> Theoretical Division, Center for Nonlinear Studies (CNLS) and Center for integrated Nanotechnologies (CINT), Los Alamos National Laboratory, USA
P3-8	<b>Paving Way for Efficient, Metal-Free, and Environmentally Green Emissive Devices</b> Lundberg P. Lindh E.M., Tang S., Edman L. The Organic Photonics and Electronics Group, Department of Physics, Umeå University, Sweden
P3-9	<b>Synthesis and application of AZO and MoO<sub>3</sub> Nanoparticles solution in Hybrid Light Emitting Diodes</b> M. Sanz-Lleó, N. Perinka, E. Martínez-Ferrero Photonic Line at the Printed Electronic & Embedded Devices Unit, Eurecat, Spain
P3-10	<b>Investigation of luminescence in quantum-structure-based OLED's systems</b> P. A. Orłowski, A. Wincukiewicz, J. Polaczyński, G. Kołodziej, B. Seredyński, A. Leniart, K. Korona, M. Kamińska Faculty of Physics, University of Warsaw, Warsaw, Poland
P3-11	<b>The future of affordable mobile charging is here with Organic Solar Cells and Buck Converters.</b> D. Tsamos <sup>1</sup> , S. Tsimikli <sup>2</sup> , M. Chatzidis <sup>1</sup> , S. Logothetidis <sup>1</sup> <sup>1</sup> Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece <sup>2</sup> Organic Electronic Technologies P.C. (OET), Greece
P3-12	<b>Laser-Induced Conductivity Control for the Fabrication of Invisible Ag Nanowire Electrode Patterns</b> Harim Oh, Jeeyoung Lee, Yoonseok Oh, Minseok Seo, Jaeyoung Kim, Seonwoo Lee, and Myeongkyu Lee* Department of Materials Science and Engineering, Yonsei University, Korea
<b>POSTER GROUP 4</b> <b>Monday 3 July – Thursday 6 July</b>	
<b>Bioelectronics (shared WS with NN17)</b>	
P4-1	<b>Development of ratiometric fluorescent membranes based on CdSe/ZnS QDs and a fluorescent dye for hydrogen peroxide detection</b> D. H.D. Rhee J.I. Chonnam National University, Republic of Korea
P4-2	<b>Surface Functionalized Carbon Dots as Fluorescent Nanolabels</b> R. Genc Mersin University, Turkey
P4-3	<b>As-Se-based glasses doped with rare-earth ions for biosensing applications</b> Y. Shpotyuk Center for Innovation and Transfer of Natural Sciences and Engineering Knowledge, Poland
P4-4	<b>The overlooked role of a protein channel: Generation of pulsed electromagnetic wave in a biosystem</b> F. Yang Peking University, China
P4-5	<b>Hybrid gold-coated micellar composites for point-of-need biothiol sensing using consumer electronic devices</b> D. L. Giokas University of Ioannina, Greece
P4-6	<b>Smart Electrochemical Signaling of Bisphenol A with Silver-doped ZnO on Screen Printed Electrodes</b> K. Bisetty

	<i>Durban University of Technology, South Africa</i>
P4-7	<b>To map the temperature distribution of a single cell</b> S. Y. Xu <i>Peking University, China</i>
P4-8	<b>Detecting a Persistent Organic Pollutant Polychlorinated Biphenyl with Biosensor Based on Total Internal Reflection Imaging Ellipsometry</b> Y. Niu <i>Chinese Academy of Sciences, Beijing, China</i>
P4-9	<b>Intrinsic Signal-to-Noise Ratio of a Single Receptor Biosensor</b> Z. Djurić, Institute of Technical Sciences of SASA, Serbia
P4-10	<b>Deterministic versus Stochastic Analysis of Competitive Adsorption in Microfluidic Biosensors</b> Z. Djurić, Institute of Technical Sciences of SASA, Serbia
P4-11	<b>Detection of E-coli with a microfluidic chip</b> M. Filipescu <i>National Institute for Lasers, Plasma, and Radiation Physics, Romania</i>
P4-12	<b>Macroscopically Ordering Effect of Self-Assembled Monolayers by anisotropic underlying substrate for controlling the chain tilting direction</b> Y. -C. Shin, J. -S. Park and H. -R. Kim <i>School of Electronics Engineering, Kyungpook National University 80 Daehakro, Bukgu, Daegu, 41566, South Korea</i>
<b>POSTER GROUP 5</b>	
<b>Monday 3 July – Thursday 6 July</b>	
<b>Graphene (shared WS with NN17)</b>	
P5-1	<b>Graphenes as potential oil-spill cleaners</b> G. Z. Kyzas <i>Eastern Macedonia and Thrace Institute of Technology, Greece</i>
P5-2	<b>Air-stable Au doping of graphene by hybridizing with graphene oxide for flexible transparent electrodes</b> S. S. Lee <i>Korea Research Institute of Chemical Technology, Korea</i>
P5-3	<b>In-situ Raman Spectroscopy of Solution Gated Epitaxial Graphene Field-Effect Transistors</b> J. Binder <i>University of Warsaw, Poland</i>
P5-4	<b>Polymer-assisted large-area sublimation growth of epitaxial graphene on SiC</b> S. Wundrack <i>Physikalisch-Technische Bundesanstalt, Germany</i>
P5-5	<b>Simulation and analysis of Graphene-based nanoelectronic circuits using ANFIS method</b> F. Djeflal <i>University of Batna 2, Algeria</i>
P5-6	<b>Shungite derived graphene nanoplateles as multifunctional filler for polypyrrole-based hybrid nanocomposites</b> S. Politi <i>University of Rome Tor Vergata, Italy</i>
P5-7	<b>Smoke Detector based on Ultra –Violet sensitive Organic Photodiode with Graphene electrode</b> E.M Pechlivani <sup>1</sup> , B. Beyer <sup>2</sup> , D. Wynands <sup>2</sup> , A. Pesquera <sup>3</sup> , A. Zurutuza <sup>3</sup> , V. Matskos <sup>1</sup> <sup>1</sup> <i>Organic Electronic Technologies P.C, Thessaloniki, Greece</i> <sup>2</sup> <i>Fraunhofer FEP, Dresden, Germany</i> , <sup>3</sup> <i>Graphenea, Spain</i>
P5-8	<b>Growth, characterization and transfer of CVD Graphene</b> V. Kyriazopoulos, A.Laskarakis, S. Logothetidis <i>Nanotechnology Lab LTFN (Lab for Thin Films - Nanobiomaterials - Nanosystems - Nanometrology) Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece</i>
P5-9	<b>Keggin Type Polyoxotungstate/ Oxy Graphene Nanocomposite Multilayer Films For Photocatalyst Application</b> Y. Topal Selcuk University, Turkey