

International Workshop on 3D Printing, 3D Bioprinting, Digital & Additive Manufacturing (I3D18), 2-6 July 2018, Thessaloniki, Greece

PRELIMINARY PROGRAM

Tuesday 3 July

12:00–13:30	Workshop on I3D 1 (Room : Timber Hall 2) Chair: S. Tsimikli, OET, Greece
12:00-12:30 INVITED	Hybrid electronics integration by inkjet technology M. Grooten ¹ , DoMicro BV <i>Luchthavenweg 10, 5657EB Eindhoven, The Netherlands</i>
12:30-12:45 YRA Candidate	3D printed supercapacitors from 2D material inks C. Grotta ¹ , P. Sherrell ¹ , P. Palczynski ¹ , M. Sokolikova ¹ , A. Panagiotopoulos ¹ , C. Mattevi ¹ ¹ <i>Department of Materials, Imperial College London</i> <i>Royal School of Mines, Exhibition Road, SW7 2AZ London, United Kingdom</i>
12:45-13:00	3D Printed Imaging Phantoms for Smarter SPECT Algorithm J. Babiuch-Hall ¹ , K. Kacperski ² , M. Gierszewska, M. Ustynowicz, W. Adamczyk ¹ , A. Korneluk ¹ , N. Kuk ¹ , K. Ornat ¹ , P. Szczypkowski ¹ , W. Zdziarska ¹ , J. Szczytko ¹ ¹ <i>Faculty of Physics, University of Warsaw, Warsaw, Poland</i> ² <i>Department of Medical Physics, Maria Skłodowska-Curie Institute of Oncology Warsaw, Poland</i>
13:00-13:30 INVITED	Laser writing of nanomaterials for wearable sensors A. Palla Papavlu <i>National Institute for Laser, Plasma & Radiation Physics (INFLPR), Romania</i>

Plenary Session Tuesday 3 July

18:30 - 20:30	PLENARY SESSION NANOTECHNOLOGY 2018 (Room: Grand Petra)
18:30-19:00	Introduction by Prof. S. Logothetidis, ISFOE18 & NN18 Chairman
19:00-19:30 PLENARY	Plastic Nanoelectronics for the Internet of Things (IoT) Thomas Anthopoulos <i>Physical Science and Engineering Division, KAUST, Saudi Arabia</i>
19:30-20:00 PLENARY	Bio-responsive Hybrid Materials for Regenerative Medicine and Biosensing Molly Stevens <i>Imperial College London, UK</i>
20:00-20:30 PLENARY	Nanotechnology, 3D Printing and Organic Electronics in Automotive applications Ashutosh Tomar <i>Jaguar Land Rover, UK</i>

Wednesday 4 July

12:00-13:30	Workshop on I3D 2 (Room : Crystal Hall) Chair: M. Gioti, Nanotechnology Lab LTFN, Department of Physics, Aristotle University of Thessaloniki, Greece
12:00-12:30 INVITED	Inkjet printing of OLEDs-from large area to high resolution C. Boeffel, M. Gensler, A. Wedel <i>Fraunhofer IAP, Functional Materials and Devices, Geiselbergstr. 69, 14476 Potsdam, Germany</i>
12:30-13:00 INVITED	OET hits 7.4% New World Record Efficiency for Single Structure Fully Printed Organic Photovoltaic by Roll to Roll Processes E. Mekeridis ¹ , S. Tsimikli ¹ , A. Zachariadis ² , E.M. Pechlivani ¹ , A. Laskarakis ² , C. Kapnopoulos ² , S. Logothetidis ² , V. Matskos ¹ ¹ <i>Organic Electronic Technologies P.C. (OET), Antoni Tritsi 21B, Thessaloniki, 57001, Greece</i> ² <i>Nanotechnology Lab LTFN - Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece</i>
13:00-13:15	Printing with Light: ultrafast printing technologies enabling Flexible Electronics G. Arutinov , M. Giesbers, S. van Waalwijk van Doorn, J. van den Brand <i>Holst Centre / TNO, High Tech Campus 31, Eindhoven, The Netherlands</i>
13:15-13:30	Color- Tailored Polymer OLEDs: Manufacturing and Characterization M. Gioti ² , D. Kokkinos ¹ , K. Stavrou ² , S. Kassavetis ² , E. Mekeridis ¹ , E.M. Pechlivani ¹ , S. Logothetidis ² ¹ <i>Organic Electronic Technologies P.C. (OET), Antoni Tritsi 21B, Thessaloniki, 57001, Greece</i> ² <i>Nanotechnology Lab LTFN - Aristotle University of Thessaloniki, 54124, Thessaloniki, Greece</i>

15:00-18:15	Workshop on I3D 3 (Room: Crystal Hall) Chair: C. Gravalidis, LTFN, AUTH
15:00-15:30 KEYNOTE	Title to be announced soon N. Li Pira C.R.F. S.C.p.A, Italy
15:30-16:00 KEYNOTE	Intelligent Nanomanufacturing of Flexible Organic Electronic Devices A. Laskarakis <i>Nanotechnology Lab LTFN, Aristotle University of Thessaloniki, Greece</i>
16:00-16:30 INVITED	Development of interactive automotive interiors based on integrated printed and smart electronics J. Gomes, J. Fonseca, I. Matos, H. Costa, B. Matos, M. Ribeiro <i>CENTI-Centre for Nanotechnology and Smart Materials Rua Fernando Mesquita, 2785, Portugal</i>
16:30-17:00 INVITED	Strategies for Conformable Printed Devices: stretchable, thermoforming and in mold electronics P. Gaucci, A. Loi, C. Delgado, P. Lacharmoise <i>Eurecat, Centre Tecnològic de Catalunya, Functional Printing & Embeded Devices Unit, Printed Electronic Group, Av. d'Ernest Lluch 36, Parc Científic TecnoCampus, 08302-Mataró (Barcelona, Spain)</i>
17:00-17:30 INVITED	Scale-up challenges of R&D OPV - From Lab-to-Fab D. Bagnis <i>CSEM Brasil, Brazil</i>
17:30-17:45	Full integration of a printed Inductive charger into the automotive central console A. Califórnia¹, J. Gomes¹, I. Matos¹, H. Costa¹, B. Matos¹, M. Ribeiro¹, S. Melo², J. Grilo² ¹ <i>CENTI-Centre for Nanotechnology and Smart Materials, Portugal</i> ² <i>Simoldes Plásticos SA, R. Comendador António da Silva Rodrigues 165, Oliveira de Azeméis, Portugal</i>
17:45-18:00 PROJECT	Flaw tolerance in architected metamaterials P. Pantidis <i>University of Massachusetts, USA</i>
18:00-18:15	Laser Powder Bed Fusion and heat treatments: tailoring the microstructure of alloys for biomedical applications E. Santecchia^{1,2}, P. Mengucci², A. Gatto³, E. Bassoli³, L. Denti³, G. Barucca² ¹ <i>Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM - Udr Ancona), Italy</i> ² <i>Dipartimento SIMAU, Università Politecnica delle Marche, Ancona, Italy</i> ³ <i>Dipartimento DIEF, Università di Modena e Reggio Emilia, Modena, Italy</i>

Thursday 5 July

15:00-17:30	Workshop on I3D 4 (Room : Crystal Hall) Chair: A. Laskarakis, LTFN, AUTH, Greece
15:00-15:30 INVITED	3D Printing of Biomimetic Conjugated Polymers for Wearable Electronics Yue (Jessica) Wang <i>Department of Materials Science and Engineering, University of California, Merced 5200 North Lake Road, Merced, California, USA</i>
15:30-16:00 INVITED	Additive manufacturing of micrometer-sized 3D metal objects by FluidFM[®] femtoliter liquid dispensing E. Hepp <i>Cytosurge AG, Sägereistrasse 25, Glattbrugg, Switzerland</i>
16:00-16:30 INVITED	Roll-to-Roll pilot line for large-scale manufacturing of microfluidic devices J. Hesse¹, P. Hütter¹, M. Smolka¹, P. Toren¹, A. Haase¹, U. Palfinger¹, D. Nees¹, S. Ruttoff¹, C. Schaude¹, C. Leiner¹, L. Kuna¹, J. Hesse¹, B. Stadlober¹, U. Giese², T. Maier², E. Melnik², M. Sonnleitner³, B. Hierschläger³, I. Katzmayer³, A. Bauer⁴, M. Thesen⁵, M. Lohse⁵ ¹ <i>MATERIALS Institute, JOANNEUM RESEARCH FmbH, Weiz, Austria</i> , ² <i>Center for Health & Bioresources, Austrian Institute of Technology GmbH, Wien, Austria</i> , ³ <i>GENSPEED Biotech GmbH, Rainbach, Austria</i> , ⁴ <i>mb technologies, Fürstenfeld, Austria</i> , ⁵ <i>micro resist technology GmbH, Berlin, Germany</i>
16:30-17:00 INVITED	Fast 3D printing of very large automotive parts: present and future P. Perlo <i>Interactive Fully Electrical Vehicles, I-FEVS, Italy</i>
17:00-17:15	Toward slot-die coating of flexible and large-area organic-light emitting diodes in ambient conditions K. Stavrou¹, M. Gioti¹, C. Koutsiaqi¹, C. Kamaraki¹, E. Koutsounanos¹, D. Kokkinos², S. Logothetidis¹ ¹ <i>Lab for Thin Films - Nanobiomaterials - Nanosystems & Nanometrology (LTFN), Department of Physics, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece</i> ² <i>Organic Electronic Technologies, Antoni Tritsi 21b, Thessaloniki, Greece</i>
17:15-17:30 EU PROJECT	Real-time melt pool monitoring for process control in additive manufacturing C. Theoharatos, D. Besyris, V. Vassalos, V. Tsagaris <i>Computer Vision Systems, IRIDA Labs S.A., Patras Innovation Hub, Kato-Ano Kastritsiou 4, Patras, Greece</i>

Friday 6 July

15:30-17:30	WS3: Special Session I3D Bio (Room: Crystal Hall) Chair:Y. Misirlils
15:30-16:00 INVITED	Engineering customizable hydrogel inks for 3D tissue and organ printing Alexandra Rutz University of Cambridge, UK
16:00-16:30 INVITED	Challenges for Bioprinting and Bioink Design Aylin Sendemir-Urkmez, Ege University, Turkey
16:30-17:00 INVITED	3D Printed Personalized Otorhinolaryngology Implants and Bioprinting for Immunomodulation N.E. Vrana Protip Medical & INSERM UMR 1121, France
16:00-16:30 INVITED	Challenges for Bioprinting and Bioink Design Aylin Sendemir-Urkmez, Ege University, Turkey
17:00-17:30 INVITED	TBA Gloria Pinilla Garcia, REGEMAT 3D, Spain
17:30-18:00 INVITED	3D bioprinting of human soft tissues Hanna Berthag, Cellink, Sweden