

PRELIMINARY PROGRAM

Wednesday 7 July 2021

11:00-13:00 (I3D-Session)	I3D 1 3D Bioprinting
11:00-11:30 KEYNOTE	Criteria, Challenges, and Recent Advances in Translational Bioinks Yawei Gu, Aurelien Forget, V. Prasad Shastri Institute for Macromolecular Chemistry, University of Freiburg, Germany
11:30-12:00 INVITED	Engineering spinal cord organoids with neural co-cultures in alginate fibers O. M. Fannon, A. Bithell ² , E. Delivopoulos ¹ ¹ : School of Biological Sciences, U. of Reading, UK ² : School of Pharmacy, U. of Reading, UK
12:00-12:30 INVITED	Hierarchically structured 3D bioprinting for tissue engineering Sendemir A. ^{1,2} ¹ Dept. of Bioengineering, Ege U., Turkey ² Dept. of Biomedical Technologies, Ege U., Turkey
12:30-13:00 INVITED	Prototyping of Bespoke Bioelectronic Interfaces that are Soft and Multi-modal I. R. Minev Dept. of Automatic Control and Systems Engineering, U. of Sheffield, UK
13:00-14:00	Lunch Break NN21 Posters-Exhibition-Networking

14:00-14:30 KEYNOTE (I3D-Session) Chair: V. Prasad Shastri	3D Printing for the Future of Healthcare: Applications via multi-materials, bio- and electronics printing Yeong Wai Yee School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore Centre for 3D Printing, HP-NTU Digital Manufacturing Corp Lab, Singapore
14:30-16:00 V (I3D-Session) & L (Timber 2)	I3D 2
14:30-15:00 INVITED	Laser precise printing for biomedical applications Ioanna Zergioti School of Applied Mathematics and Physical Sciences, National Technical U. of Athens, Greece
15:00-15:15 EU PROJECT	3D Printable Conducting Polymers for Bioelectronics David Mecerreyes, Antonio Dominguez Alfaro, Nuria Allegret, Gisela Luque, Naroa Lopez, Miryam Criado POLYMAT U. of the Basque Country (UPV/EHU), Spain
15:15-15:30	Laser-induced printing of stem cells: a powerful tool for biological applications Adrien Casanova ¹ , Jérôme D Robin ² , Frédérique Magdinier ² , Philippe Delaporte ¹ , Patricia Alloncle ¹ , ¹ Aix-Marseille U., CNRS, LP3, France; ² Aix-Marseille U., INSERM, MMG, France
15:30-15:45	Atomic Layer 3D printing I. Kundatra ¹ , M. Plakhotnyuk ¹ , J. Bachmann ^{1,2} , M. Barr ² , P. Brüner ³ ¹ : ATLANT 3D Nanosystems, Denmark ² : Friedrich-Alexander Universität Erlangen, Germany ³ : IONTOF GmbH, Münster, Germany
15:45-16:00	Design and manufacturing of thermal actuators using 3D and screen printing K.M.B. Jansen, Julius Hofman, Yu Song Faculty of Industrial Design Engineering, Delft U. of Technology

16:00- Coffee Break NN21
16:30 Poster Session 2

16:30-18:30 (I3D-Session)	I3D 4
16:30-17:00 INVITED	INVITED(V) Two-Photon Grayscale Lithography Basics and applications A. Legant, M. Thiel, Y. Tanguy, N. Lindenmann, A. Tungal, R. Reiner, M. Blaicher, J. Hoffmann, T. Sauter, F. Niesler, T. Gissibl, A. Radke Nanoscribe GmbH & Co. KG, Germany
17:00-17:30 INVITED	3D printed nanocomposite materials and (meta)materials for energy applications Z. Viskadourakis, A. Tasolamprou, O. Tsilipakos, and G. Kenanakis In. of Electronic Structure and Laser, Foundation for Research and Technology-Hellas, Greece

Thursday 8 July 2021

16:30-18:15 (I3D-Session)	I3D 4
16:30-17:00 INVITED	Printed Sensors and Biosensors Current and future trends for point-of-need applications Alejandra Ben Aissa ¹ , Luciano Sappia ¹ , Ana Moya ² , Claudia Delgado Simao ¹ Functional Printing & Embedded Devices Department, Eurecat Technological Centre, Avinguda Ernest Lluch 36, 08302 Mataró, Spain
17:00-17:15	3D Printing of Light Concentrators Applied for Organic Photovoltaics C. T. Chen, H. H. Yang National Kaohsiung U. of Science and Technology, R.O.C.
17:15-17:30	Design and Manufacturing of PVB/Graphene Composite Filaments Applied for Fused Deposition Modeling C. T. Chen, P. S. Liao National Kaohsiung U. of Science and Technology, Taiwan, R.O.C
17:30-17:45	A novel method for 3D printing at submicron scale and fast speed using electrostatic jet deflection A. Ramon ¹ , I. Liashenko ¹ , J. Rosell-Llompart ^{2,3} , A. Cabot ^{1,3} 1 IREC. (España), 2 URV. (España), 3 Institució Catalana de Recerca i Estudis Avançats (España)
17:45-18:00	Fabrication of a crystalline nanocellulose embedded agarose substrate for 3D culture of mast cells Karamchand ² , A. Wagner ² , S. B. Alam ² , M. Kulka ^{1,2} ¹ Dept. of Medical Microbiology and Immunology, U. of Alberta ² Nanotechnology Research Center, National Research Council Canada, Canada
18:00-18:15	Nano Particle Jetting, a new direct material jetting AM technology from Xjet H. Levi ¹ P Manufacturing and Defense Industries, Xjet Ltd. Rehovot, Israel

POSTER*

* The posters will be presented from Tuesday to Friday during Lunch break

I3D	POSTER AREA II Wednesday 7 July, Thursday 8 July (13:00-14:00, 16:00-16:30): Poster Display & Presentations
P1-1L	Development of 3D printing filaments for dosimetry phantom applications in radiotherapy. A. Jreije ¹ , D. Adliene ² 1,2 Physics Department, Kaunas University of Technology, Studentų Str. 50, Kaunas, Lithuania
P1-2L	3D Bioprinting and in vitro Evaluation of Hydroxyapatite / Locust Bean Gum/Alginate Composite Bioinks for Bone Tissue Engineering Sinemli R.1, Karacaoglu B.1, Morcimen Z. G.1, Sendemir A.1, 2* 1 Department of Bioengineering, Ege University, Izmir, Turkey 2 Department of Biomedical Technologies, Ege University, Izmir, Turkey