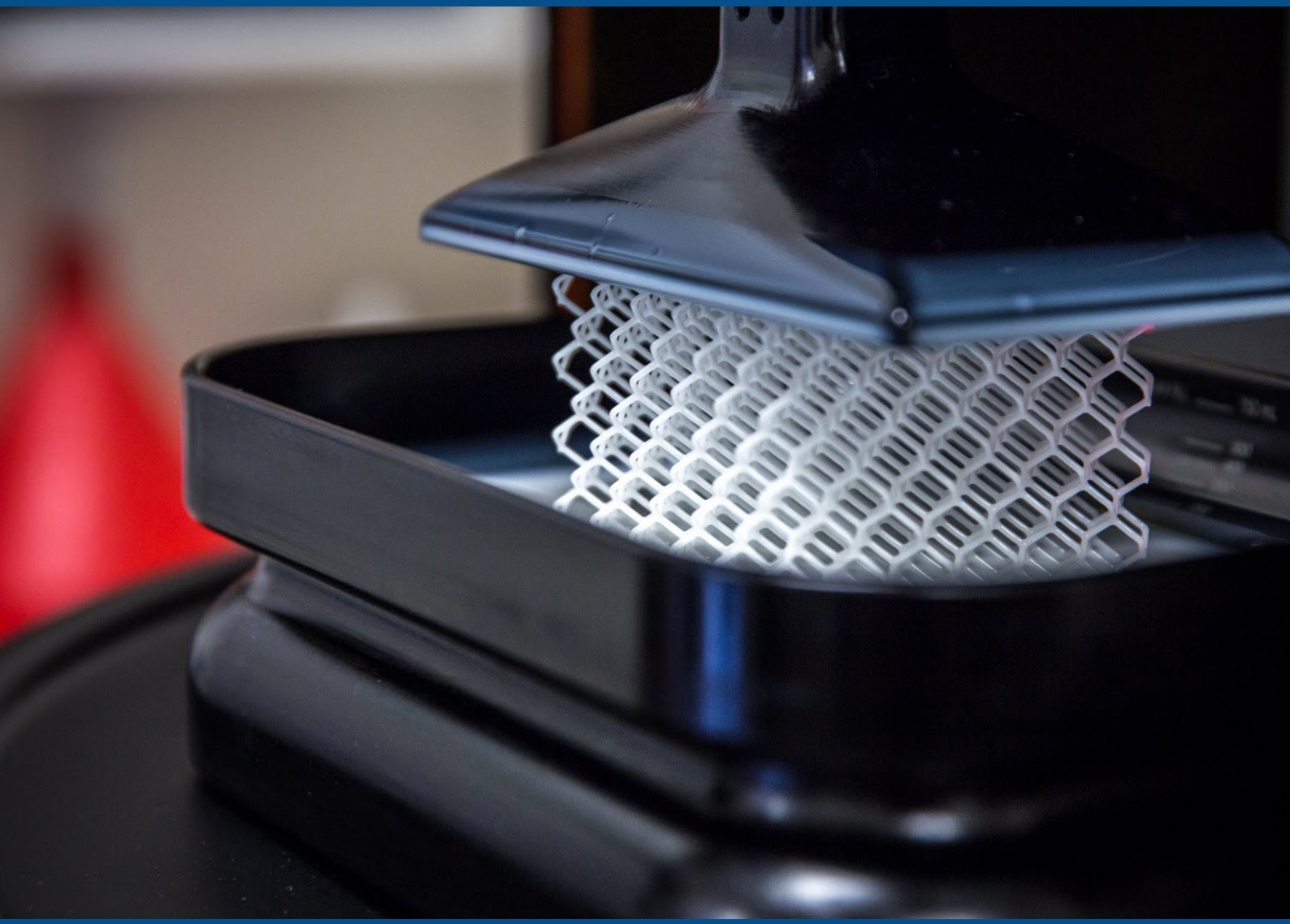
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3D PRINTING TECHNOLOGY AND INNOVATIONS

March 19-20, 2018 | London, UK



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Day 1 March 19, 2018

08:30-09:00 Registrations

Bleriot 1

conferenceseries.com 09:00-09:25 **Opening Ceremony**

Keynote Forum

09:25-09:30 **Introduction**

09:30-10:10 **Title: What is inside AM fabricated parts? the nature of residual stresses and shape distortion**
Alexander V Manzhirov, Ishlinsky Institute for Problems in Mechanics - RAS, Russia

10:10-10:50 **Title: Iodonium based photoinitiators: Towards simplified photocurable formulations**
Frederic Dumur, Aix Marseille University, France

Group photo

Networking and Refreshments Break 10:50-11:05 @ Breakout Area

11:05-11:45 **Title: Robocasting of dense ceramic parts**
Gremillard Laurent, MATEIS (UMR CNRS 5510), France

Sessions: Advances in 3D Printing & Additive Manufacturing Technology | Innovations in 3D Printing | Design for 3D Printing | 3D Printing Materials | Benefits of 3D Printing and Technology | Future Technology in 3D Printing | Challenges in 3D Printing | 3D printing in Biomaterials | Clinical applications of 3D Printing Innovations | Applications of 3D Printing in healthcare & medicine

Session Chair: Alexander V. Manzhirov, Ishlinsky Institute for Problems in Mechanics - RAS, Russia
Session Co-Chair: Lin Li, The University of Manchester, UK

Session Introduction

11:45-12:05 **Title: Cost reduction activity**
Yasunori Ota, Value Engineering Trainer, Japan

12:05-12:25 **Title: 3D printer applications for developing robotics**
Ikuo Yamamoto, Nagasaki University, Japan

12:25-12:45 **Title: Functionally graded materials obtained by additive manufacturing technology**
Devi K Kalla, Metropolitan State University of Denver, USA

Lunch Break 12:45-13:40 @ RBG

13:40-14:00 **Title: The fabrication of grinding wheels with 3-dimensional controllable abrasives arrangement using Stereolithography Apparatus method**
Xipeng Xu, Huaqiao University, China

14:00-14:20 **Title: How far we can go to print a jet engine? The beauty of a 3D printed micro jet engine**
Pinlian Han, South University Of Science And Technology, China

14:20-14:40 **Title: Yield stress agent for silicone 3D printing**
Edwin Joffrey Courtial, ICBMS, Claude Bernard University Lyon 1, France

14:40-15:00 **Title: Research progress in additive manufacturing of ceramics and some related applications**
Jia Min Wu, Huazhong University of Science and Technology, China

15:00-15:20 **Title: Two-photon polymerization: A femtosecond laser-based technology for additive manufacturing in life sciences and microoptics**
Sonke Steenhusen, Fraunhofer Institute for Silicate Research ISC, Germany

15:20-15:40 **Title: 3D Printing and nanocomposite gels as a new challenge in tissue repair and regeneration**
Teresa Russo, National Research Council, Italy

15:40-16:00 **Title: Additive manufacturing of metal-ceramic metamaterials for RF communications**
Daniel S Engstrom, Loughborough University, UK

	Networking and Refreshments Break 16:00-16:15@ Breakout Area
16:15-16:35	**Title: Biologically acitve and mechanically improved composite core-shell hydrogel for 3D bioprinting** **J Yang,** University of Nottingham, UK
16:35-16:55	**Title: Design principles for structural components and functional devices** **Frank Schubert,** Chemnitz University of Technology, Germany
16:55-17:15	**Title: Discrete element simulation of radial heat transfer in powder bed of 3D printing** **Yuanqiang Tan,** Huaqiao University, China
17:15-17:35	**Title: Implementation of entry-level bioprinters for biotechnological applications** **Josefine Morgenstern,** Karlsruhe Institute of Technology (KIT), Germany
17:35-17:55	**Title: Modern methods of additive manufacturing for biomedical products** **Patrycja Szymczyk,** Wroclaw University of Science & Technology, Poland
17:55-18:15	**Title: The Application of 3D printing in micro AD biogas technology** **Guy Blanch,** LEAP Micro AD Ltd, UK
	Panel Discussion

Day 2 March 20, 2018

Hall - Bleriot 1

Keynote Forum

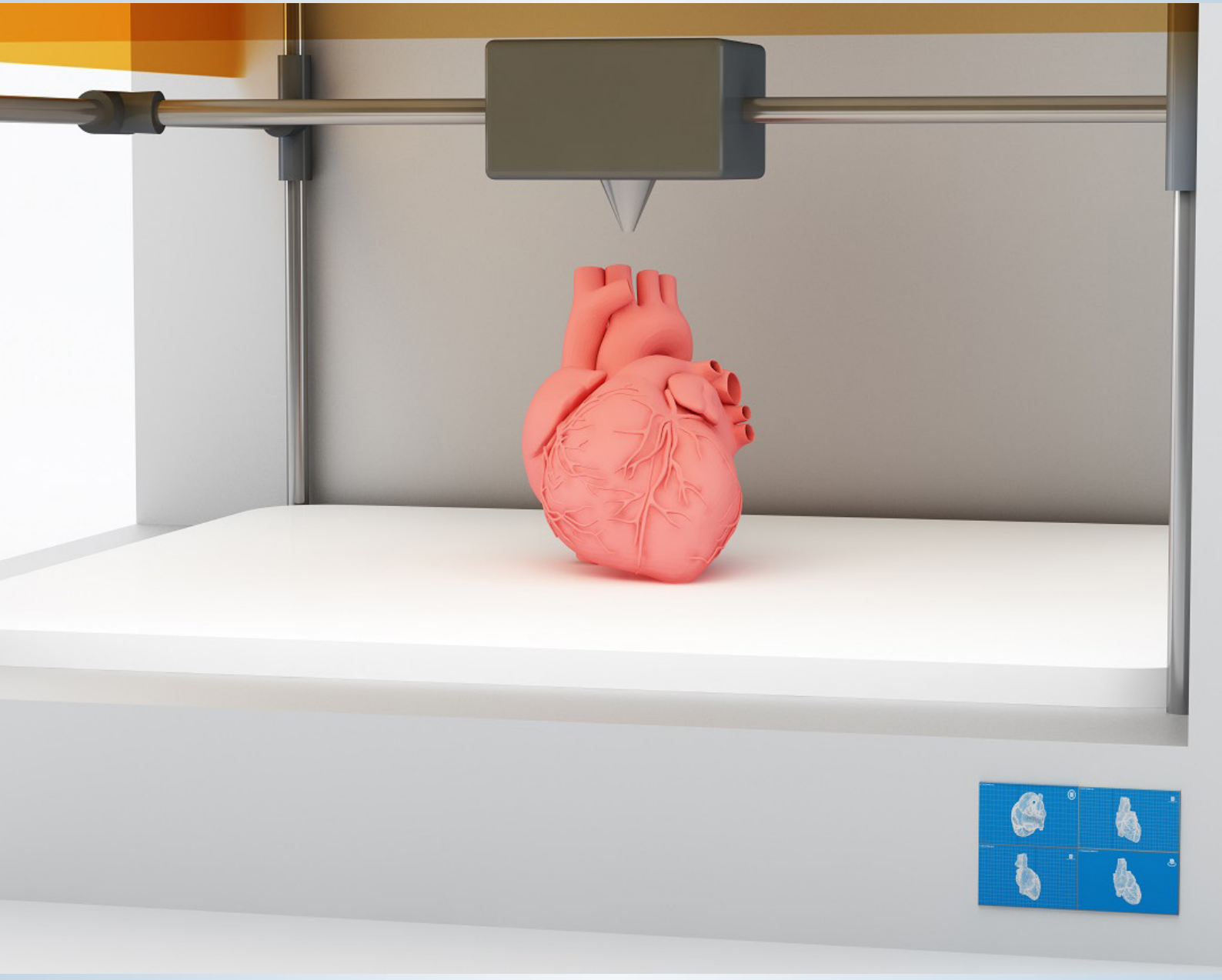
08:30-09:10	**Title: Heat and mass flows in laser metal deposition additive manufacturing** **Lin Li,** The University of Manchester, UK
09:10-09:50	**Title: New generation of the cutting tools when the AM (Additive Manufacturing) technology is used** **Miroslav Zetek,** University of West Bohemia, Czech Republic
	Sessions: 3D Printing Technology Impact on Manufacturing Industry | 3D Image Processing and Visualization | 3D printing technology and innovations | Metal 3D Printing | Polymers in 3d printing | 3D Bio printing | Lasers in 3D Printing in Manufacturing Industry | 3D Printing of Supply Chain Management | Tissue and Organ Printing
	Session Chair: Lin Li, The University of Manchester, UK **Session Co-Chair: Alexander V Manzhirov,** Ishlinsky Institute for Problems in Mechanics - RAS, Russia
	Session Introduction
09:50-10:10	**Title: Advanced materials and technologies in aviation industry** **Tomasz Kurzynowski,** Wroclaw University of Science & Technology, Poland
10:10-10:30	**Title: Selective laser melting of a new medium manganese steel alloy for automotive industry** **Bernd Schob,** Chemnitz University of Technology, Germany
10:30-10:50	**Title: Selective laser melting of a new tailored aluminium alloy (SilmaAl® AlSi7Mg0.6) for aerospace industry** **Camilo Zopp,** Chemnitz University of Technology, Germany
10:50-11:10	**Title: How our noses could change if we lived on Mars Transhumanist speculations** **Marta Flisykowska,** Academy of Fine Arts, Poland
	Networking and Refreshments Break 11:10-11:20 @ Breakout Area
	Special Session on Multiscale Additive Manufacturing 11:20-13:30
11:20-12:00	**Title: Multiscale additive manufacturing** **Geoffrey Mitchell,** CDRSP-IPL, Portugal
12:00-12:30	**Title: Multiscale additive manufacturing for tissue engineering** **Nuno Alves,** CDRSP-IPL, Portugal
12:30-13:00	**Title: Multiscale additive manufacturing for aerospace and tooling applications** **Artur Mateus,** CDRSP-IPL, Portugal

13:00-13:30	**Title: Biomanufacturing at multiple scales** **Wenhui Song,** UCL Centre for Nanotechnology and Regenerative Medicine, UK
	Lunch Break 13:30-14:10 @ RBG
	YRF Presentations
14:10-14:25	**Title: Investigation on the effect of processing parameters on 3D printed structures** **Chao Zhu,** University of Manchester, UK
14:25-14:40	**Title: Sandwich panel with lattice core for aircraft anti-ice system made by Selective Laser Melting** **Sara Varetti,** Polytechnic University of Turin, Italy
14:40-14:55	**Title: Investigation of the mechanical properties of Hot-Melt extruded filaments for pharmaceutical applications of FDM** **Jehad Nasereddin,** University of East Anglia, UK
14:55-15:10	**Title: Cell characterization methods for use in 3D bioprinting process development** **Sarah Gretzinger,** Karlsruhe Institute of Technology (KIT), Germany
15:10-15:25	**Title: Micro-structures fabricated by SLA 3D printing to enhance the electrochemical effects of supercapacitors** **Jiun-Hong Liu,** Chung Yuan Christian University, Taiwan
15:25-15:40	**Title: Freeform-FDM process development using natural fibre reinforced biopolymers** **Mohamed Aburaia,** University of Applied Sciences Technikum Wien, Austria
	Networking and Refreshments Break 15:40-15:50 @ Breakout Area
15:50-16:05	**Title: Shape matters: Benefits of 3D printing for the design of packed-bed reactors** **Jennie von Seckendorff,** Technical University of Munich, Germany
16:05-16:20	**Title: Using digital image corelation in assessment of anisotropy of strength properties of 3D printed specimens** **Katarzyna Czwakiel,** Cracow University of Technology, Poland
16:20-16:35	**Title: 3D printed cellulose nanocrystals based hydrogel scaffolds for biomedical applications** **Sahar Sultan,** Stockholm University, Sweden
16:35-16:50	**Title: An investigation into the quasi-static response of 316L gyroid structures manufactured using selective laser melting** **Shuai Ma,** Chongqing University, China
	Poster Presentation 16:50-17:50 @ Foyer
	Poster Judge: Alexander V Manzhirov, Ishlinsky Institute for Problems in Mechanics - RAS, Russia
3DP-01	**Title: The development of computer aided tools for the formulation design of FDM 3D printed polypills** **Salman Rahman,** University of East Anglia, UK
3DP-02	**Title: Platinum-based metallopolymers for 3d printing applications** **Sam Hsien-Yi Hsu,** City University of Hong Kong, Hong Kong
3DP-03	**Title: Additive manufacturing for heterogeneous catalysis: New challenges in material and process development** **Theresa Ludwig,** Technical University of Munich, Germany
3DP-04	**Title: Finite element simulation of sonotrode for ultrasonic additive manufacturing on dynamic performance** **Changcai Cui,** Huaqiao University, China
3DP-05	**Title: Protecting diamond abrasive from been corroded in the vitrified bond wheel manufactured by 3D printing** **Jing Lu,** Huaqiao University, China
3DP-06	**Title: 3D Printing to biodiesel production by photocatalysis** **Lorena Hernandez Afonso,** University of La Laguna, Spain

3DP-07	**Title: SLA-3D printed electrolytes for solid oxide fuel cells** **Lorena Hernandez Afonso,** University of La Laguna, Spain
3DP-08	**Title: Distribution of the metal powder particles in the dispenser platform its influence on the printing quality** **Ivana Zetkova,** University of West Bohemia, Czech Republic
3DP-09	**Title: High resolution DEM building with SAR interferometry and high resolution optical image** **Omar Hadj Sahraoui,** Algerian Space Agency, Algeria

Panel Discussion

Awards & Closing Ceremony 17:50-18:00



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