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3rd International Conference on

3D Printing Technology and Innovations

March 25-26, 2019
Rome, Italy



SCIENTIFIC PROGRAM

DAY 1
Monday, 25th March

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Advances in 3D Printing & Additive Manufacturing Technology	**Talks On: Types of Cataract & Cataract Surgery**
Stereolithography	Bio printing tissues and organs
Powder bed and inkjet head 3D printing	Anatomical models for surgical preparation
Laminated object manufacturing	Customized implants and prostheses
Digital light processing	Drug delivery devices and dosage forms
Selective laser melting	Bone repair

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: 3D Bio printing	**Talks On:** Innovations in 3D Printing
3D Bioprinting of Tissues and Organs	3D Printed Food
Skin 3D Bioprinting	3D Printed shoes
3D bioprinting of Neural stem	3D Printed organs
3D bioprinting of Cell-Laden Microcarriers	3D Printing Redefining Air travel
3D bioprinting of human chondrocytes	Consumer 3D Printing
Bioprinting of 3D hydrogel	

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers	Workshop

DAY 2
Tuesday, 26th March

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On: 3D Printing & Beyond: 4D Printing	**Talks On:** 3D Printing Technology Impact on Manufacturing Industry
Fiber Architecture	Material cost savings
Hydro-reactive Polymers/Hydrogels	Improvement to incremental cost calculations
Cellulose Composites	Strategy transformation
Thermo-reactive Polymers/Hydrogels	
Digital Shape-Memory Polymers	
Stress Relaxation	

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On: 3D Printing Materials	**Talks On:** 3D printing in Biomaterials
Plastics (polyactic acid, acrylonitrile butadiene styrene, polyvinyl alcohol plastic	Tissue engineering
Powders (polyamide, alumide, multicolour)	3D Bio plotting

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

PAST AFFILIATES

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Alexander V. Manzhirov,
Ishlinsky Institute for Problems in Mechanics of the Russian Academy of Sciences, Russia

Lin Li,
The University of Manchester, UK

GREMILLARD Laurent,
National Institute of Applied Sciences of Lyon, France

Miroslav Zetek,
University of West Bohemia, Czech Republic

Frederic Dumur,
Aix Marseille University, France

Teresa Russo,
National Research Council of Italy, Italy

Marta Flisykowska,
Academy of Fine Arts in Gdansk, Poland

Jia-Min Wu,
Huazhong University of Science and Technology, China

Sam Hsien-Yi Hsu,
City University of Hong Kong, Hong Kong

Clive Roberts,
University of Nottingham, UK

Randy E Ellis,
Queen's University, Canada

V. I. Bujakas,
P. N.Lebedev Physical Institute of Russian Academy of Science, Russia

Keun Park,
Seoul National University of Science and Technology, South Korea

Lincy Pyl,
Vrije Universiteit Brussel, Belgium

Pinlian Han,
South University Of Science And Technology Of China, China

Josefine Morgenstern,
Karlsruhe Institute of Technology (KIT), Germany

Sara Varetti,
Polytechnic University of Turin, Italy

Mohamed Aburaia,
University of Applied Sciences FH Technikum Wien, Austria

Salman Abdur Rahman,
University of East Anglia, UK

Ivana Zetkova,
University of West Bohemia, Czech Republic

Rome Attractions



Glimpses of 3D Printing Technology CONFERENCES

















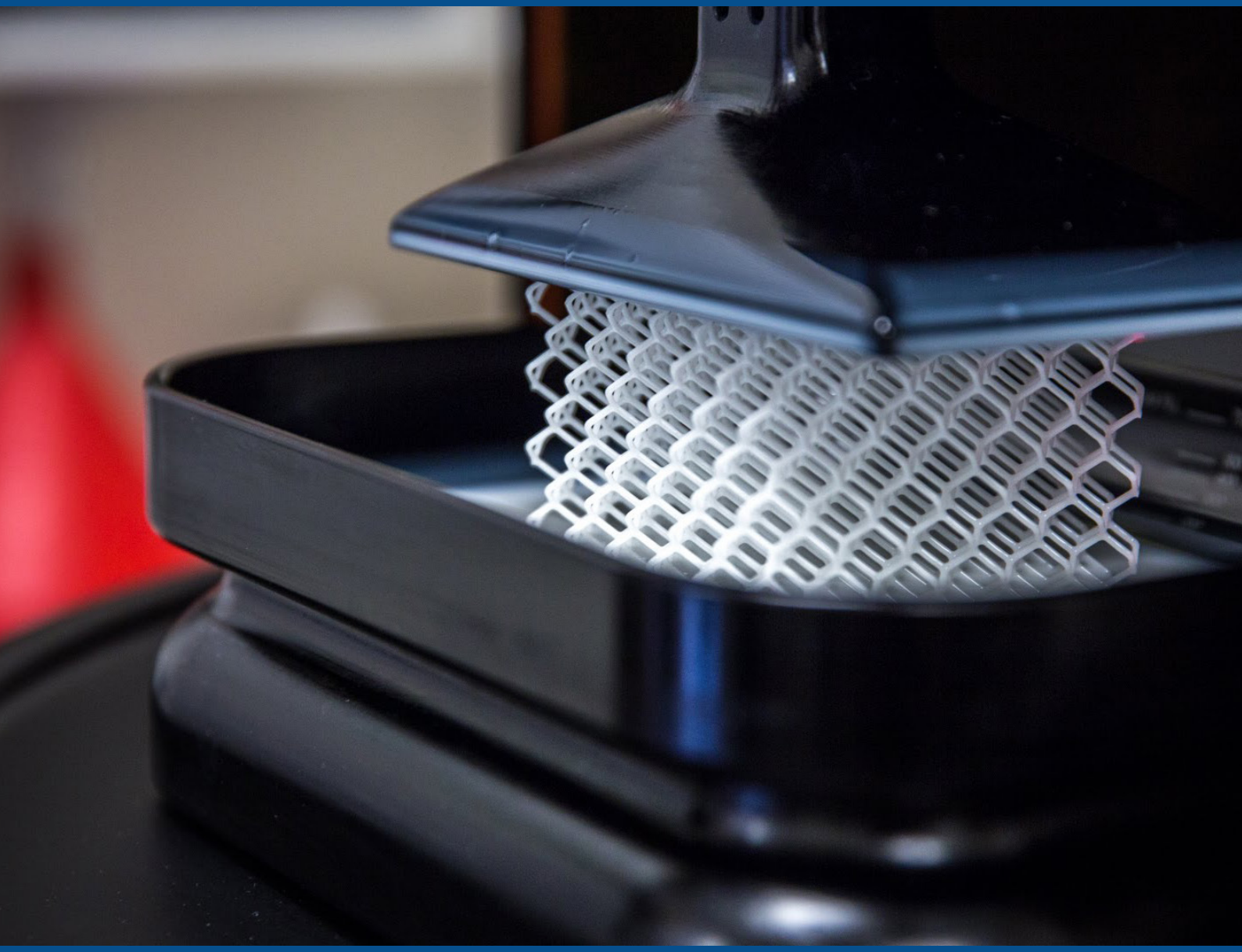
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Scientific Program

2nd International Conference on

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Registrations

Bleriot 1

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Opening Ceremony

Keynote Forum

Introduction

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

Title: Iodonium based photoinitiators: Towards simplified photocurable formulations

Frederic Dumur, Aix Marseille University, France

Group photo

Networking and Refreshments Break

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

Title: Cost reduction activity

Yasunori Ota, Value Engineering Trainer, Japan

Title: 3D printer applications for developing robotics

Ikuo Yamamoto, Nagasaki University, Japan

Title: Functionally graded materials obtained by additive manufacturing technology

Devi K Kalla, Metropolitan State University of Denver, USA

Lunch Break

Title: The fabrication of grinding wheels with 3-dimensional controllable abrasives arrangement using Stereolithography Apparatus method

Xipeng Xu, Huaqiao University, China

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

Title: Yield stress agent for silicone 3D printing

Edwin Joffrey Courtial, ICBMS, Claude Bernard University Lyon 1, France

Title: Research progress in additive manufacturing of ceramics and some related applications

Jia Min Wu, Huazhong University of Science and Technology, China

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

Title: 3D Printing and nanocomposite gels as a new challenge in tissue repair and regeneration

Teresa Russo, National Research Council, Italy

Title: Additive manufacturing of metal-ceramic metamaterials for RF communications

Daniel S Engstrom, Loughborough University, UK

Networking and Refreshments Break

Title: Biologically acitve and mechanically improved composite core-shell hydrogel for 3D bioprinting

J Yang, University of Nottingham, UK

Title: Design principles for structural components and functional devices
Frank Schubert, Chemnitz University of Technology, Germany
Title: Discrete element simulation of radial heat transfer in powder bed of 3D printing
Yuanqiang Tan, Huaqiao University, China
Title: Implementation of entry-level bioprinters for biotechnological applications
Josefine Morgenstern, Karlsruhe Institute of Technology (KIT), Germany
Title: Modern methods of additive manufacturing for biomedical products
Patrycja Szymczyk, Wroclaw University of Science & Technology, Poland
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

Title: Heat and mass flows in laser metal deposition additive manufacturing
Lin Li, The University of Manchester, UK
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

Title: Advanced materials and technologies in aviation industry
Tomasz Kurzynowski, Wroclaw University of Science & Technology, Poland
Title: Selective laser melting of a new medium manganese steel alloy for automotive industry
Bernd Schob, Chemnitz University of Technology, Germany
Title: Selective laser melting of a new tailored aluminium alloy (SilmaAl® AlSi7Mg0.6) for aerospace industry
Camilo Zopp, Chemnitz University of Technology, Germany
Title: How our noses could change if we lived on Mars Transhumanist speculations
Marta Flisykowska, Academy of Fine Arts, Poland

Networking and Refreshments Break

Special Session on Multiscale Additive Manufacturing

Title: Multiscale additive manufacturing
Geoffrey Mitchell, CDRSP-IPL, Portugal
Title: Multiscale additive manufacturing for tissue engineering
Nuno Alves, CDRSP-IPL, Portugal
Title: Multiscale additive manufacturing for aerospace and tooling applications
Artur Mateus, CDRSP-IPL, Portugal
Title: Biomanufacturing at multiple scales
Wenhui Song, UCL Centre for Nanotechnology and Regenerative Medicine, UK

Lunch Break

YRF Presentations

Title: Investigation on the effect of processing parameters on 3D printed structures
Chao Zhu, University of Manchester, UK
Title: Sandwich panel with lattice core for aircraft anti-ice system made by Selective Laser Melting
Sara Varetti, Polytechnic University of Turin, Italy

Title: Investigation of the mechanical properties of Hot-Melt extruded filaments for pharmaceutical applications of FDM
Jehad Nasereddin, University of East Anglia, UK
Title: Cell characterization methods for use in 3D bioprinting process development
Sarah Gretzinger, Karlsruhe Institute of Technology (KIT), Germany
Title: Micro-structures fabricated by SLA 3D printing to enhance the electrochemical effects of supercapacitors
Jiun-Hong Liu, Chung Yuan Christian University, Taiwan
Title: Freeform-FDM process development using natural fibre reinforced biopolymers
Mohamed Aburaia, University of Applied Sciences Technikum Wien, Austria

Networking and Refreshments Break

Title: Shape matters: Benefits of 3D printing for the design of packed-bed reactors
Jennie von Seckendorff, Technical University of Munich, Germany
Title: Using digital image corelation in assessment of anisotropy of strength properties of 3D printed specimens
Katarzyna Czwakiel, Cracow University of Technology, Poland
Title: 3D printed cellulose nanocrystals based hydrogel scaffolds for biomedical applications
Sahar Sultan, Stockholm University, Sweden
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

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Scientific Program

International Conference on

3D PRINTING TECHNOLOGY AND INNOVATIONS

July 05-06, 2017 | Frankfurt, Germany



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Day 1 | July 05, 2017

08:30-09:30 Registrations

Odenwald

conferenceseries.com **09:30-09:55** **Opening Ceremony**

Keynote Forum

09:55-10:00 **Introduction**

10:00-10:40 **Title: 3D printing as a practical pharmaceutical manufacturing method**
Clive Roberts, University of Nottingham, UK

Networking & Refreshment Break 10:40-11:00 @ Foyer

11:00-11:40 **Title: Blending patient-specific instruments with surgical navigation**
Randy E Ellis, Queen's University, Canada

11:40-12:20 **Title: Additive Manufacturing of Medical Products**
Bogdan Dybała, Wroclaw University of Science and Technology, Poland

Group Photo

Sessions:
3D Printing: Additive Manufacturing Technology & Market| 3D Design | 3D Bioprinting | 3D Printing in Medicine | 3D Biomaterials | Supply Chain Management | 3D Printing Industries | 3D Printing in Orthopaedics and Traumatology

Session Chair: Clive Roberts, University of Nottingham, UK

Session Introduction

12:20-12:50 **Title: The GeSiM BioScaffolder 3.1 – A 3D bioprinter not only for bioprinting**
Frank-Ulrich Gast, GeSiM mbH, Germany

12:50-13:20 **Title: Integrated structural health monitoring by 3D printed metallic structures**
Lincy Pyl, Vrije Universiteit Brussel, Belgium

Lunch Break 13:20-14:10 @ Gaumenfreund Resturant

14:10-14:40 **Title: Oxygen concentration and conversion distributions in a layer-by-layer UV-cured film used as a simplified model of a 3D UV inkjet printing system**
Kentaro Takiame, Kanazawa University, Japan

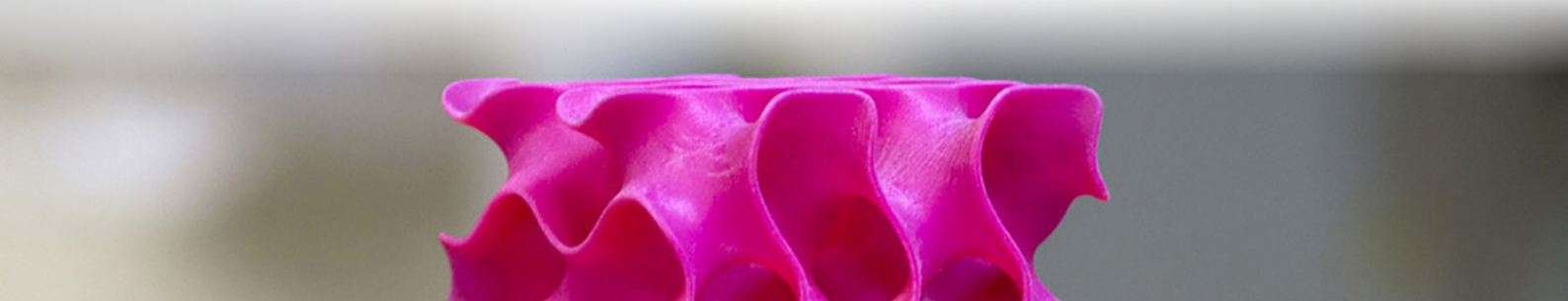
14:40-15:10 **Title: Full multi-axis motion control of a tool tip for metal 3D printing**
Haeseong Jee, Hongik University, South Korea

15:10-15:40 **Title: Materials development using additive manufacturing technologies**
Tomasz Kurzynowski, Wrocław University of Science & Technology, Poland

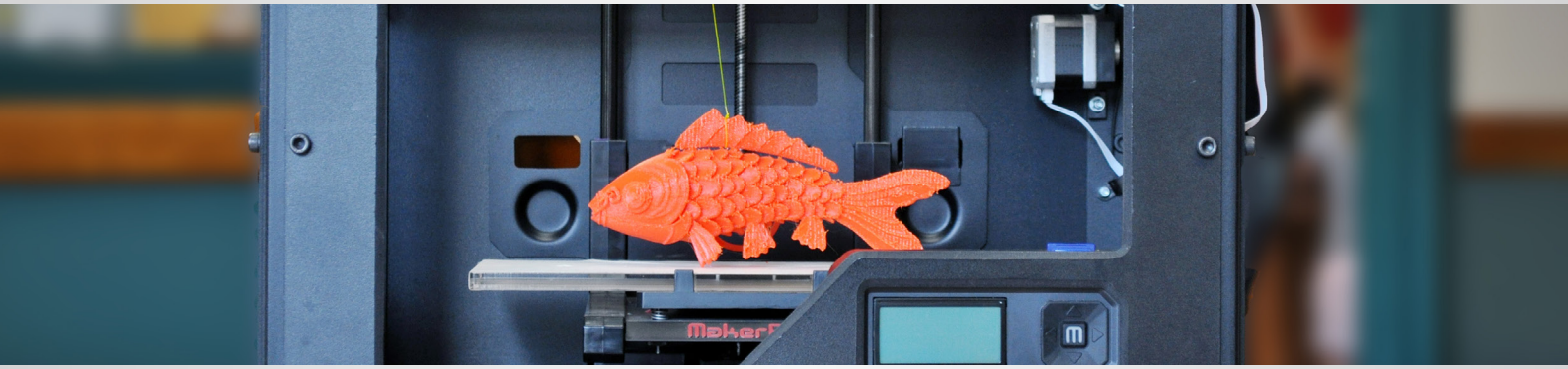
15:40-16:10 **Title: Mandibular reconstrucions using 3D technologies**
Kamila Kołodziejczyk, Wroclaw Medical University, Poland

Panel Discussion

Networking & Refreshment Break 16:10-16:30 @ Foyer



Day 2 | July 06, 2017	
Odenwald	
Sessions: **3D Printing: Innovations | Polymers in 3D Printing | 3D Materials | 3D Organ Printing | Radiation oncology Future Technology | Impact on Manufacturing Industry**	
Session Chair: Randy E Ellis, Queen's University, Canada	
	Session Introduction
10:00-10:30	**Title: Design and fabrication of a porous cast using additive manufacturing** **Keun Park,** Seoul National University of Science and Technology, South Korea
10:30-11:00	**Title: Material development for Rapid Prototyping for futur medical application** **Wolfdietrich Meyer,** Fraunhofer Institute for Applied Polymer Research, Germany
	Panel Discussion
	Networking & Refreshment Break 11:00-11:20 @ Foyer
11:20-11:50	**Title: 3D-printing technology for physical simulation of petal-type space mirror deployment** **V. I. Bujakas,** P. N. Lebedev Physical Institute of Russian Academy of Science, Russia
	Young Researchers Forum
11:50-12:20	**Title: Development of economic DLP and resin based 3D printing system for micro fabrication of fine resolution** **Shweta Thapa,** Rutgers School of Mechanical & Aerospace Engineering, USA
12:20-12:50	**Title: Process chain for fabrication of external maxillofacial prosthesis using additive manufacturing** **Nneile Nkholise,** Central University of Technology, South Africa
12:50-13:20	**Title: Cardiovascular tissue engineering using 3D printing technology** **Narutoshi Hibino,** The Johns Hopkins Hospital, USA
	Lunch Break 13:20-14:10@ Gaumenfreund Resturant
14:10-14:40	**Title: Progress towards metal additive manufacturing standardization** **Mohsen Seifi,** ASTM International, USA
14:40-15:10	**Title: 3D printing of drug delivery systems by laser sintering** **Gean V Salmoria,** Federal University of Santa Catarina, Brazil
15:10-15:40	**Title: Re-programmable sequential folding/unfolding in 3D printed structures** **Wei Min Huang,** Nanyang Technological University, Singapore
	Panel Discussion
	Closing Ceremony
	Networking & Coffee 15:40-16:00 @ Foyer



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2nd International Conference on

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March 19-20, 2018 London, UK