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# 3DPRINTINGMEET2021

October 11-13, 2021 | Valencia, Spain

**Tentative Program**



**ALBEDO MEETINGS**

Floor# 3, Advant Building, 99B, Kakatiya  
Hills, Kavuri Hills, Madhapur Hyderabad,  
TS 500033

[contact@albedomeetings.com](mailto:contact@albedomeetings.com)

## Day 1 | October 11, 2021

08:30-09:15 OnSpot Registrations

09:15-09:30 Opening Ceremony

### Plenary Session

09:30-10:10 P Title: Will be Updated Soon

Zhou Kun, Nanyang Technological University, Singapore

10:10-10:50 P Title: Formation and Structure of 3D Printed Fiber Reinforced Composites

Abdel-Fattah Seyam, Wilson College of Textiles, USA

10:50-11:05 Coffee Break

11:05-11:45 P Title: Will be Updated Soon

Javier Alonso Madrid, ETSAM Technical University of Madrid, Spain

11:45-12:25 P Title: On Processes, Materials and Mechanical Properties for non-load-bearing and load-bearing applications

Xinhua Wu, Monash University, Australia

12:25-13:05 P Title: 3D Printing for Congenital Heart Defects, Allowing Innovation and Improved Survival for Congenital Heart Disease Patient

Hani Najm, Cleveland Clinic, USA

13:05-13:10 Group Photo

13:10-13:50 Lunch Break

### Keynote Session

13:50-14:20 K Title: Prediction of Metal Additive Manufacturing Based on Non-Iterative Computations

Steven Y. Liang, Georgia Institute of Technology, USA

14:20-14:50 K Title: Three-Dimensional Technology Applications in Maxillofacial Reconstructive Surgery: Current Surgical Implication

Imad Abu ElNaaj, Bar-Ilan University, Israel

14:50-15:20 K Title: Stereolithographic Additive Manufacturing of Practical Structures

Soshu Kiriwara, Osaka University, Japan

15:20-15:50 K Title: Production Routes for Specialized, Spherical Powders

Karin Ratschbacher, Montanuniversity Leoben, Austria

15:50-16:05 Coffee Break

16:05-16:35 K Title: Ma-Wang Material Model for Cold-Spray Additive Manufacturing Simulation

Ninshu Ma, Osaka University, Japan

16:35-17:05 K Title: Effect of Microstructure on The Mechanical Behavior of 3D Printed Meta Materials

		Teresa Perez Prado, Imdea Materials Institute, Spain
17:05-17:35	K	<b>Title: Mutimaterial 3d Printing for Construction and to Show Our New Construction a Two-Storey House</b>
		Benoit Furet, University of Nantes, France
<b>End of Day 1</b>		
<b>Day 2   October 12, 2021</b>		
<b>Invited Session</b>		
<b>Material Mechanical Properties</b>		
09:30-09:55	I	<b>Title: Biodegradable Materials in 3D Printing</b>
		Mazurchevici Simona-Nicoleta, University of Iași, Romania
09:55-10:20	I	<b>Title: Development And Implementation By Micro-extrusion Of Innovative Alumina Pastes, Based On Eco-friendly Additives</b>
		Delphine Gourdonnaud, University of Limoges, France
10:20-10:45	I	<b>Title: Mechanical Behaviour of 3D AISI 316L Structures Manufactured by Laser Metal Deposition</b>
		M. Angeles Montealegre, Ikergune- Inzu Group, Spain
10:45-11:10	I	<b>Title: 3d Printed Metamaterial Units</b>
		Anna Tasolamprou, Foundation for Research and Technology Hellas, Greece
11:10-11:25	<b>Coffee Break</b>	
11:25-11:50	O	<b>Title: Will be Updated Soon</b>
		Piera Alvarez Aguado, Ikergune- Inzu Group, Spain
11:50-12:15	I	<b>Title: Thymos - An Open Hardware 3D printed Small Scale Testing Frame</b>
		Jan Novak, Czech Technical University in Prague, Czech Republic
<b>New Material Formulations and Composite Materials</b>		
12:15-12:40	I	<b>Title: 3D Printing of Cellulose-Based Materials for Electrical Insulation, Automotive and Marine Applications</b>
		Heli Kangas, VTT Technical Research Centre of Finland, Finland
12:40-13:05	O	<b>Title: Highly Aligned Discontinuous Fibre Composite Filaments for Fused Deposition Modelling: Production, Printing Trial and Testing</b>
		Narongkorn Karajangsawasdi, University of Bristol, UK
13:05-13:45	<b>Lunch Break</b>	
<b>3D Printing Design and Modeling</b>		
13:45-14:10	I	<b>Title: 3D-Printed Ceramic Microreactors for Catalytic Applications</b>
		Oscar H. Laguna, University of Jaen, Spain
14:10-14:35	O	<b>Title: Tissue Engineering and Three-Dimensional Printing in Periodontal Regeneration: a Literature Review</b>
		Simon Raveau, University of Nantes, France

14:35-15:00	O	<b>Title: 3D Printing of polymeric Periodic Open Cell Structures (POCS) as Micro reactors for catalytic applications</b>
		Pablo Fernandez Liétor, University of Jaen, Spain
<b>Novel Additive Manufacturing Processes and Process Enhancements</b>		
15:00-15:25	I	<b>Title: In-Process Monitoring and Operator Feedback During the Additive Manufacturing of TiAl6V4 Alloy Components</b>
		Denis Dowling, University College Dublin, Ireland
15:25-15:50	I	<b>Title: A Novel Method to Calculate the Inherent Strain for Predicting the Part Distortion in Additive Manufacturing</b>
		Hong-Seok Park, University of Ulsan, Korea
15:50-16:05	<b>Lunch Break</b>	
<b>Medical Applications of 3d Printing and Bio-Printing</b>		
16:05-16:30	I	<b>Title: 3D Replicas in the Indication of Autotransplantation of Teeth</b>
		Marcel Riznic, Univerzita Pavla Jozefa Safarika v Kosiciach, Slovakia
16:30-16:55	O	<b>Title: Will be Updated Soon</b>
		Lubomir Rudy, Univerzita Pavla Jozefa Safarika v Kosiciach, Slovakia
16:55-17:20	I	<b>Title: Additive Manufacturing of HA/PEEK Composites for Implantation</b>
		Krzysztof Rodzen, Ulster University, UK
17:20-17:45	Online	<b>Title : Clinical Applications of 3D Printing Technique in Medical Fields and Open-Source COVID-19 Medical Supplies in Taiwan</b>
		Jia-En Chen, National Taiwan University of Science and Technology, Taiwan
<b>Poster Presentation</b>		
P001	Poster	<b>Title: Compressive Load Influence on the Behaviour of 3D Printed Original Design Polymeric Heels for Orthopaedic Footwear</b>
		Edita Gelazienė, Kaunas University of Technology, USA
<b>End of Day2</b>		
<b>Day 3   October 13, 2021</b>		
<b>Modeling and Simulation of Additive Manufacturing Processes</b>		
09:30-09:55	I	<b>Title: On a Merging of Metal Injection Molding with Additive Manufacturing</b>
		Berenika Hausnerova, Tomas Bata University in Zlin, Czech Republic
09:55-10:20	I	<b>Title: High Resolution Additive Manufacturing of Functional Materials</b>
		Valentina Bertana, Polytechnic University of Turin, Italy
10:20-10:45	I	<b>Title: Will be Updated Soon</b>

		Vincent Pateloup, Institute for Research on Ceramics, France
<b>10:45-11:10</b>	<b>I</b>	<b>Title: Will be Updated Soon</b>
		Isakov Dmitry, University of Warwick, UK
<b>11:25-11:50</b>	<b>I</b>	<b>Title: Fatigue Strength of Metallic Materials Elaborated by Additive Manufacturing</b>
		Anis HOR, ISAE-SUPAERO, France
<b>11:50-12:15</b>	<b>I</b>	<b>Title: Additive Manufacturing of Graded Metal Matrix Composites</b>
		Armando J. Yanez Casal, Escuela Politecnica Superior, Spain
<b>12:15-12:45</b>	<b>Online</b>	<b>Title: 3D Printing of Conformal Load-bearing Antenna Systems</b>
		Jin Huang, Xidian University, China
<b>12:45-13:10</b>	<b>I</b>	<b>Title: Bi-directional Machine learning (ML) modelling for Direct energy deposition additive manufacturing (DED-AM) processing design</b>
		Jian Qin, Cranfield University, UK
<b>13:10-13:45</b>	<b>Lunch Break</b>	
<b>13:45-14:10</b>	<b>I</b>	<b>Title: Modelling and Understanding the Rolling-Enabled Mitigation of Residual Stress and Distortion in Wire Arc Additive Manufacturing</b>
		Yongle Sun, Cranfield University, UK
<b>14:10-14:35</b>	<b>(k)</b>	<b>Title: Will be Updated Soon</b>
		Jialuo Ding, Cranfield University, UK
<b>3D Printing and Others</b>		
<b>14:35-15:00</b>	<b>I</b>	<b>Title: Will be Updated Soon</b>
		Rolf Walter, Institute for Composite Materials, Germany
<b>15:00-15:25</b>	<b>I</b>	<b>Title: Bio-digital Manufacturing our Future</b>
		Alberto T. Estevez, Universitat Internacional de Catalunya, Spain
<b>15:25-15:50</b>	<b>I</b>	<b>Title: Computer-Game Complex "LigroGame" on the Basis of an Educational Institution: Means, Methods and Forms of Developing Children's Intellectual Abilities Based on 3D Computer Technologies</b>
		Alena Molodnyakova, ABSPANHERA LLC, Russia
<b>15:50-16:05</b>	<b>Coffee Break</b>	
<b>16:05-16:30</b>	<b>I</b>	<b>Title: Will be Updated Soon</b>
		Sayedalireza Fereshtenejad, Seoul National University, Korea
<b>16:30-16:55</b>	<b>I</b>	<b>Title: Will be Updated Soon</b>
		Anna Jedrzejczak, Lodz University of Technology, Poland
<b>16:55-17:20</b>	<b>I</b>	<b>Title: Will be Updated Soon</b>
		Yanen Wang, Northwestern Polytechnical University, China
<b>17:20-17:45</b>	<b>Online</b>	<b>Title: Will be Updated Soon</b>

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Ricky S W LEE , Hong Kong University of Science and Technology,  
Hongkong

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**17:45-18:10    Online    Title: Will be Updated Soon**

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Jianglong Gu, Yanshan University, China

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**18:10-18:35    Online(k)    Title: Will be Updated Soon**

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Guijun Bi, Singapore Institute of Manufacturing Technology,  
Singapore