

# 3D Printing-2022

2<sup>nd</sup> Global Summit on 3D Printing & Additive Manufacturing

**June 13, 2022**

**Copenhagen, Denmark**

**FINAL PROGRAM**



**The Scientistt**

Bangalore, India

Contact: +91 77 99 83 5553

Email: [contact@thescientistt.com](mailto:contact@thescientistt.com)

# Monday June 13, 2022 | Day-1

09:00-09:15 On-Spot Registrations

09:15-09:30 Opening Ceremony

Conference Chair: **Prof. Zeev Zalevsky, Bar Ilan University, Israel**

## Plenary Session

09:30-10:15 Title: Continuum Robot Hoses and 3D Printing Applications  
**Ian Walker**, Clemson University, USA **P**

## Keynote Session

10:15-10:50 Title: Computational Framework for the Simulation of Additive Manufacturing Processes  
**Michele Chiumenti**, International Center for Numerical Methods in Engineering, Spain **K**

10:50-11:25 Title: 3D Printed Porous Ceramic Architectures for Functional Applications  
**Manuel Belmonte Cabanillas**, Institute of Ceramics and Glass, Spain **K**

11:25-11:40 Coffee Break

## Invited Session

Session 1 **3D Printing Materials**  
**3D Printing in Biomaterials**

Session Chair **Roland Loge, Laser Powder Bed Fusion of a Zr-Based Bulk Metallic Glass: Numerical Modelling, Process Optimization and Final Properties**

11:40-12:05 Title: Laser Powder Bed Fusion of a Zr-Based Bulk Metallic Glass: Numerical Modelling, Process Optimization and Final Properties  
**Roland Loge**, Ecole Polytechnique Federale De Lausanne, Switzerland **I**

12:05-12:30 Title: Global and Local Buckling Phenomena in FFF Printed Polymeric Elements  
**Roberto Torre**, Politecnico di Torino, Italy **I**

12:30-12:55 Title: Predicting Laser Melting Deposition Outcomes by Computationally Efficient Analytical Models with Experimental Verification  
**Andrei Popescu**, National Institute for Laser, Plasma and Radiation Physics, Romania **I**

12:55-13:00 Group Photo

13:00-14:00 Lunch Break

14:00-14:25 Title: Development of Ti based Metal Matrix Composites by Laser Melting Deposition Technique  
**Sabin Mihai**, National Institute for Laser, Plasma and Radiation Physics, Romania **I**

Session 2 **Additive Manufacturing Technologies**  
**Materials Innovations - Additive Manufacturing**

Session Chair **Mustafa Safa Yilmaz, Fatih Sultan Mehmet Vakıf University, Turkey**

14:25-14:50 Title: Investigation the Effect of Heat Treatment and Building Orientation of Direct Metal Laser Sintering of AISi10Mg  
**Mustafa Safa Yilmaz**, Fatih Sultan Mehmet Vakif University, Turkey **I**

<b>14:50-15:15</b>	Title: Additive Manufacturing of 2-Component Rod Seals Based on NitrileButadieneRubber (NBR) and Thermoplastic Polyurethanes (TPU) <b>Lion Sundermann</b> , German Institute for Rubber Technology, Germany	
<b>15:15-15:45</b>	Title: The Effect of Process Parameters on Producibility of Airfoil Geometries by PolyJet <b>Orhan Gulcan</b> , General Electric Aviation, Turkey	
<b>15:45-16:10</b>	Title: Hybrid Optimization Framework to Generate Graded Multi-Lattice Structures <b>Ugur Simsek</b> , General Electric Aviation, Turkey	
<b>16:10-16:25</b>	<b>Coffee Break</b>	
<b>Session 3</b>	<b>Applications in Health Care &amp; Medicine Others</b>	
<b>Session Chair</b>	<b>Stefan Riekehr, Helmholtz-Zentrum Hereon GmbH, Germany</b>	
<b>16:25-16:50</b>	Title: Tailoring Dynamic Behavior of Additively Manufactured Structures with Particle Dampers <b>Birol Ozcevik</b> , General Electric Aviation, Turkey	
<b>16:50-17:15</b>	Title: Laser Directed Energy Deposition with Wire of Magnesium Alloys With and Without Aluminium <b>Stefan Riekehr</b> , Helmholtz-Zentrum Hereon GmbH, Germany	
<b>17:15-17:45</b>	Title: 3D Printed Spacers for Efficient Water Desalination <b>Adnan Qamar</b> , King Abdullah University of Science and Technology, Saudi Arabia	
<b>17:45-18:10</b>	Title: Metallic Implants Fabricated by Additive Manufacturing Technologies <b>Diana Chioibas</b> , National Institute for Laser, Plasma and Radiation Physics, Romania	

## Poster Presentations

Title: Additive Manufacturing of Interstitial High Entropy Alloy: Scanning Strategy Dependent Anisotropic Mechanical Properties  
**Wei Zhang**, University of Groningen, Netherlands

Title: 3D Printed Models of Ear as a Tool for Comparison of Endoscopic Optics  
**Klara Balazova**, Palacky University Olomouc, Czech Republic

Title: 3D Printed Surgical Model for Training of Tympanostomy  
**Martin Snehtoa**, Palacky University Olomouc, Czech Republic

Title: 3D Printed Glass: Novel Microfluidic Device Fabrication Using Selective Laser-Induced Etching  
**Kazumi Toda-Peters**, Okinawa Institute of Science and Technology, Japan

**End of Day 1**



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