7th European Congress on

3D Printing & Additive Manufacturing

Day 1- November 07, 2022

Meeting Hall: Johnson & Sikorsky

09:00 - 9:40	Registrations	
9:40 - 10:00	Introduction	
	Keynote Presentations	
10:00 - 10:45	3D Printing of Optics	
	Andreas Heinrich, Aalen University, Germany	
10:45 - 11:30	Multimaterial 3D Printing Stereolithography for Multicolour and Electronic Applications	
	Jose Marques-Hueso, Heriot-Watt University, United Kingdom	
	Group Photo (11:30 - 11:45)	
	Networks & Refreshments (11:45 - 12:00) @ Foyer	
12:00 - 12:45	Digital Twins in Manufacturing	
	Javaid Butt, Anglia Ruskin University, United Kingdom	
Oral Presentations		
Sessions:	3D Printing in Healthcare, Life Sciences & Medicines 3D Bio Printing Graphene	
563510115.	modification and functionalization Synthesis of Graphene and 2D Materials	
Session Chair	Alex Greenberg, Columbia University College of Dental Medicine, USA	
Session Co-chair	Alexander Katz-Demyanetz, Technion - Israel Institute of Technology, Israel Hossein Najad Zadeh, University of Canterbury, New Zealand	
12:45 - 13:15	Custom 3D-Printed Cutting Guides for Femoral Osteotomy in Rotational Malalignment Due to Diaphyseal Fractures: Surgical Technique and Case Series	
	Jaime Oraa Apraiz, Arthroscopic Surgery Unit, Hospital Vithas Vitoria, Spain	
Lunch (13:15-14:00) @ Restaurant		
14:00 - 14:30	Training Occupational Therapy Students to use a 3D-Printer to Develop Assistive Technology Tools	
	Alexandra Danial-Saad, University of Haifa and The Academic Arab College for education in Israel – Haifa	
14:30 - 15:00	Personalized 3D-Printed Implant for Thoracic Vertebra Body Replacement after En Bloc Resection of a Tumor with Two-Year Follow up Period	
	Zhandos Tuigynov & Yergen Kenzhegulov, National Centar for Neurosurgery, Kazakhstan	
15:00 - 15:30	Next Generation Design Software for 3D Printed Aerospace Components	
	Alejandro Carcel Lopez, nTopology Inc., France	
15:30 - 16:00	Ring Structure of Graphene	
	Pavel Osmera, NCT, Czech Republic	

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Networks & Refreshments (16:00 - 16:30) @ Foyer

16:30 - 17:00

An Approach to Grow 2D Materials Heterostructures Directly Based on Pulsed Laser Deposition of Solid Oxide Precursors

Denys I. Miakota, Technical University of Denmark, Denmark

Day 1 Concludes

Tuesday November 08, 2022

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Day 2 - November 08, 2022			
Meeting Hall: Johnson & Sikorsky			
Keynote Presentations			
10:00 - 10:45	3D Printed Patient Specific Surgical Templates and Implants for Maxillofacial Surgery and Dental Implants		
	Alex Greenberg, Columbia University College of Dental Medicine, USA		
10:45 - 11:30	Influence of Power, Scanning Speed and Layer Thickness on Solidification and the Strength of SLM AlSi10Mg Alloys		
	Hamid Ahmad Mehrabi, University Of Sunderland, United Kingdom		
Refreshments Break (11:30- 11:45) @ Foyer			
11:45 - 12:45	New Keys for Highly Improved and Reproducible Carbon Nanotechnology Application Basing on Different Recently Revised Solid-State Fundamentals		
	Stephane Neuville, Independent Consultant, France		
	Oral Presentations		
Sessions:	Metal 3D Printing Nano 3D Printing Polymers in 3D Printing 3D Printing Materials Advances in Graphene Physics		
Session Chair	Andreas Heinrich, Aalen University, Germany		
Session co-Chair	Alexandra Danial-Saad, University of Haifa and The Academic Arab College for education in Israel – Haifa		
12:45 - 13:15	Screen Additive Manufacturing Cellulose Hydrogel		
12:45 - 15:15	Hossein Najad Zadeh, University of Canterbury, New Zealand		
	Lunch (13:15-14:00) @ Restaurant		
14:00 - 14:30	Microstructural Characterization of Additively Manufactured (SLM and LMD) and Then Heat-Treated High Entropy Alloy AlCrFe ₂ Ni ₂		
	Alexander Katz-Demyanetz, Technion - Israel Institute of Technology, Israel		
14:30 - 15:00	3D Printing Ocean Plastic – Experiments, Experience and Engagement		
14.50 15.00	Samantha Vettese & Xingyu Tao, Edinburgh Napier University, United Kingdom		
15:00 - 15:30	A Human-Centred Design Approach to 3D Printing for Wearable Cooling Products		
10.00 10.00	Emma Grain, Huddersfield University, United Kingdom		
	Refreshments (15:30 - 16:00) @ Foyer		
	Poster Presentations		
16:00 - 16:15	Graphene Model as a Lattice of Atoms with Screened Ions		
	Boris G. Freinkman, Keldysh Institute of Applied Mathematics, Russia		

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16:15 - 16:30	Growth of Graphene by Microwave Plasma-Enhanced CVD Technique on Ultra-Thin Metal Ni Film as Catalyst
	Marjan Monshi, Kaunas University Of Technology, Lithuania

Day 2 Concludes

Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks

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Virtual Presentations		
November 08, 2022 GMT		
13:00 - 13:15	Introduction	
Keynote Presentations		
13-15 - 13:45	3D Modeling for the Categorization of the Venous Anatomy of Craniopagus Twins	
	Andrew Kobets, Montefiore Medical Center, USA	
Oral Presentations		
13:45 - 14:10	3D Printing – The Future of Pharmaceutical Manufacturing	
	Korinde van den Heuvel, DFE Pharma, Germany	
14:10 - 14:35	Filament Quality Monitor for Fused Filament Fabrication	
14.10 - 14.55	Jakub Aniulis, Wroclaw University of Science and Technology, Poland	
14:35 - 15:00	Sp3-Hybridized Moiré Films Based on Twisted Bilayers of Graphenes and H-Bn: Dft Studies of Structures and Properties	
	Leonid A. Chernozatonskii, Russian Academy of Sciences, Russia	
15:00 - 15:25	Removal of Two Endocrine Disruptors (Ametryn and Prometryn from Surface Water Using Fe_3O_4 /Reduced Graphene Oxide (Rgo) Nanocomposite	
	Delia Teresa Sponza, Dokuz Eylül University, Turkey	
15:25 - 15:50	Heritage Building Information Modelling as the Way Forward for Cultural Heritage	
15:25 - 15:50	Yusuf Arayici, Northumbria University, United Kingdom	
15:50 - 16:15	Transition Metal Doped Graphene as Hydrogen Gas Sensor: A Theoretical Perspective	
15:50 - 10:15	Deepa Sharma, Government of Haryana, India	
16:15 - 16:40	Generative Topological Design for an Additive Manufactured Architecture: Integrating Structural, Material and Aesthetic Analysis	
	Robert Stuart-Smith, University of Pennsylvania, USA	
16:40 - 17:05	Additive Manufacturing and the Environment	
16:40 - 17:05	Harm-Jan Steenhuis, Hawaii Pacific University, USA	
Day Concludes followed by Vote of Thanks		