



SCIENTIFIC SUMMITS

WSE3DPAM-2024

December 02-04, 2024 | Prague, Czech Republic

WORLD SUMMIT AND EXPO ON 3D PRINTING & ADDITIVE MANUFACTURING

**FINAL
PROGRAM**



WSE3DPAM-2024 Program

Monday, December 02, 2024 | Day-1

09:00-09:30

Registrations & Opening Cermony

Keynote Session

09:30-10:10

Title: Innovation in Metal Additive Manufacturing with Wayland Additive's NeuBeam® Process

Peter Hansford, Wayland Additive Limited, UK

K

10:10-10:50

Title: SLA by 3DCERAM: Industrial Integration in Ceramic Additive Manufacturing

Rouslan Svintsitski, 3D Ceram, France

K

10:50-11:30

Title: Functional and Hierarchical 3D Printed Scaffolds for Bone Tissue Engineering using 3Y-TZP/HAp Composites

Elsa Dos Santos Antunes, James Cook University, Australia

K

11:30-11:50

Coffee Break

11:50-12:30

Title: 3D Bioprinting of Leukemia-Lymphoid Microenvironment Models for Pre-Clinical Drug Testing

Cristina Scielzo, Malignant B cells biology and 3D modelling Unit, IRCCS Hospital San Raffaele Milan, Italy

K

12:30-13:10

Title: X-Ray Computed Tomography (XCT) and Resonant Ultrasound Spectroscopy (RUS) Techniques for Quality Inspection of Additively Manufactured Parts

Anne Francoise Obaton, French National Metrology Institute (NMI), France

Co-chair/K

13:10-14:00

Group Photo & Lunch Break

Invited Session

14:00-14:30

Title: Revolutionizing Manufacturing: The Power of Industrial 3D Printing

Markus Glasser, EOS GmbH, Germany

I

14:30-15:00

Title: Additive Manufacturing for Biomedical Applications

Fengyuan Liu, University of Bristol, UK

I

15:00-15:30	Title: Towards Personalized Medicine: Empowering the Application of 3D-Printing in Healthcare Using Functional and Advanced Excipients	I
	Sharareh Salar-Behzadi , RCPE GmbH, Austria	
15:30-16:00	Title: 3D Printing to Create Surface Patterns on Textile Fabrics	I
	Jinsong Shen, De Montfort University, UK	
16:00-16:20	Coffee Break	
16:20-16:50	Title: 3D Printing in Construction (Additive Construction)	I
	Tara Bisharat , An Earth and Space Architect, Canada	
16:50-17:20	Title: Non-Destructive Detection of Porous Defects in Additively Manufactured Samples using Ultrasonic Waves	I
	Erwin Wojtczak , Gdańsk University of Technology, Poland	
17:20-17:40	Title: Dynamic Analysis of Mechanical Metamaterials Produced with Additive Manufacturing Techniques	YRF
	Tomasz Ciborowski , Gdańsk University of Technology, Poland	
17:40-18:00	Title: Development of Hydrogels for 3D Printing Formed from whey Protein and Pectin	YRF
	Magdalena Trusińska , Warsaw University of Life Sciences, Poland	

END OF DAY-1

Tuesday, December 03, 2024 | Day-2

Keynote Session

09:00-09:40	Title: 3D Printing in Medical Education, Patient Care, and Beyond	K
	Getaw Worku Hassen , New York Medical College, Metropolitan Hospital Center, USA	
09:40-10:20	Title: 3D Printing Ceramic Substrates for Coral Larvae Settlement and Growth	K
	Matthew Drane , James Cook University, Australia	

Invited Session

10:20-10:50	Title: Volumetric 3D Printing of Viscous Photopolymers with Xolography	I
	Arpita Roychoudhury , Xolo GmbH, Germany	

10:50-11:20	Title: Numerical Simulation for Geometry Prediction in Laser Cladding Process Based on a Dynamic Catchment Efficiency Approach	I
	Yajie Hu , McGill University, Canada	
11:20-11:40	Coffee Break	
11:40-12:10	Title: Implementation of 3D-Printed Conic Reference Structures for the Correlation of Microscopic and Microct Imaging	I
	Philipp Nolte , HAWK Goettingen, Germany	
12:10-12:40	Title: Sustained Release of 3D Printed Bupropion Hydrochloride Tablets Bearing Braille Imprints for the Visually Impaired	I
	Chrystalla Protopapa , National and Kapodistrian University of Athens, Greece	
12:40-13:05	Title: Multi-Scale Optimal Design For Ultra-Lightweight And High-Stiffness Porous Stiffeners Using Variable Design Domain Topology Optimization	YRF
	Daiki Yamane , Toyota Technological Institute, Japan	
13:05-14:00	Lunch Break & Group Photo	
14:00-14:25	Title: Optimal Design of Fiber Placement for CFRP Structures and its Path Design for 3D Printing	YRF
	Makito Kato , Toyota Technological Institute, Japan	
14:25-14:55	Title: Recent Trends, Opportunities, and Challenges of Machine Learning in 3D Printing for Biomedical Engineering Applications	I
	Mitra Asadi-Eydivand , Amirkabir university of Technology, Biomedical Department, Iran	
14:55-15:25	Title: 3D-Printed Personalized Osteotomy Guides for Periarticular Knee Osteotomy	I
	Xinlong Ma , Tianjin Hospital, Tianjin University, China	
15:25-16:30	Poster Presentations	
PP-1	Title: Possibilities of Using Additive Technologies in Creating a Robotized Workplace for Dental Production	
	Maryna Yeromina , Technical university of Košice, Slovakia	
PP-2	Title: Using the Principles of Generative Design in the Creation of Manipulative Robotic Elements for Dental Applications	
	Samuel Mikuláško , Technical university of Košice, Slovakia	
END OF DAY-2		