

Final Program

ISNN2023 & IS3DPAM2023

International Summit on Nanotechnology and Nanomaterials
&
International Summit on 3D Printing and Additive Manufacturing

August 10-11, 2023 | London, UK

Day 01 | August 10, 2023

09:00-09:30		On Spot Registrations
Chair		Esther Akinlabi , Deputy Faculty Pro Vice Chancellor for Research and Knowledge Exchange-Northumbria University, UK
Co- Chair		Milos Janecek , Charles University, Czech Republic
09:30-10:10	P	Title: Cellular and Molecular Aspects of Extracellular Vesicle Delivery
		Gregory Lavieu , Director-U1316 Laboratory, Paris City University, France
10:10-10:50	P	Title: Bioengineering of Oncolytic Extracellular Vesicles
		Julia Dancourt , Paris City University, France
10:50-11:05		Refreshment Break
11:05-11:45	P	Title: Protein-CNT Composite Fibers: Structure, Function and Applications
		Rong R. Wang , Director-International Center for Sensor Science andEngineering, Illinois Institute of Technology, USA
11:45-12:25	P	Title: Innovative Applications of Laser Welding and Additive Manufacturing of Grade 5Titanium Alloy
		Esther Akinlabi , Deputy Faculty Pro Vice Chancellor for Research and Knowledge Exchange-Northumbria University, UK
12:25-13:05	P	Title: Microstructure and Mechanical Properties of Ti-8.5wt%-Mo Alloy Prepared by Laser Directed Energy Deposition
		Milos Janecek , Charles University, Czech Republic
13:05-14:05		Group Photo
		Lunch
14:05-14:45	P	Title: Surviving Disruption in Additive Manufacturing–Demystifying the AM Technology Question
		Heising Wilderich , Partner & Associate Director at Boston Consulting Group, Germany
14:45-15:15	K	Title: Best Practices for Global Commercialization in Additive Manufacturing
		Beth Collington , Director-Global Prosthetic Solutions/Zahn Dental of Henry Schein, USA

15:15-15:45	K	<p>Title: Cost-Effective High-Performance Self-Powered Solar-Blind Deep UV Photodetectors Based on Solution-Processed Nanoparticles for Large-Scale and Flexible Applications</p> <p>Iman S. Roqan, King Abdullah University of Science and Technology, Saudia Arabia</p>
15:45-16:15	K	<p>Title: Building-Edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications</p> <p>Stepan Lucyszyn, Imperial College London, UK</p>
16:15-16:30	Refreshment Break	
Sessions	Graphene Nanotechnology, Engineered Nanoparticles, Nanomaterials for Renewable & Sustainable Energy, Powder Bed Fusion, Metal 3D Printing	
Session Chair	Beth Collington, Director-Global Prosthetic Solutions/Zahn Dental of Henry Schein, USA	
16:30-16:50	I	<p>Title: Potassium Ions Pre-Intercalated Vanadium Oxide Cathodes for Aqueous Zn-Ion Batteries</p> <p>Yinan Lu, University College London, UK</p>
16:50-17:10	I	<p>Title: Investigation of Ti6Al4V Overhanging Rotational Parts with Minimal Clearances Produced by E-PBF</p> <p>Melisa Altintas, Lead Mechanical Engineer at Aselsan Inc, Turkey</p>
17:10-17:30	I	<p>Title: Plasmon-Enhanced Dual-Band Electrochromic Modulation</p> <p>Junxin Wang, University of Cambridge, UK</p>
17:30-17:50	I	<p>Title: Synthesis and Characterization of Mesoporous Silica Nanoparticles Generated from Briquette Coal Ash</p> <p>Altantuya Ochirkhuyag, Mongolian Academy of Science, Institute of Chemistry and Chemical Technology, Mongolia</p>
17:50-18:10	I	<p>Title: Amoxicillin Loaded Graphene Oxide from Plantain Stem and its Anti-Microbial Activity</p> <p>Shobogun Alexander Ayomide, Federal University of Technology, Nigeria</p>
18:10-18:30	I	<p>Title: Improving the Side Surface Roughness of Laser Powder Bed Fusion C18150 Copper Alloy by Regulating and Controlling the Thermal Environment at the Onset of the Molten Track</p> <p>Xu Yang, Huazhong University of Science and Technology, China</p>

PO1

Poster

Title: Infrared Sintering of Silver Nanoparticles in Aerosol Jet Printing

Marcin Winnicki, Wrocław University of Science and Technology, Poland

****Closing the Conference for Day 1****

Day 02, August 11, 2023

Chair

Rong R. Wang, Director-International Center for Sensor Science and Engineering, Illinois Institute of Technology, USA

Co-Chair

Gregory Lavieu, Director-U1316 Laboratory, Paris City University, France

09:30-10:10

P

Title: Study of Metamaterials for Photovoltaic and Terahertz Absorbers

Jing Bai, University of Minnesota Duluth, USA

10:10-10:50

P

Title: The Continuing Evolution of the Periodic Table via Quantum Field Theory

John Owen Roberts, Independent Researcher Former Open University Tutor, UK

10:50-11:05

Refreshment Break

11:05-11:45

P

Title: Nanotechnology in Photocatalysis: A New Vision of 1 Century Old Process

Diana Sannino, University of Salerno, Italy

11:45-12:25

P

Title: Experiences Setting up the World's Largest Robot Based 3D Printing Machinery (usable track length 40m) from Scratch

Stefan Garbereder, Head of Innovation & Capability Development, Al Seer Marine, UAE

12:25-13:05

P

Title: Additive Manufacturing of NiTi Shape Memory Alloys

Jan Van Humbeeck, KU Leuven University, Belgium

13:05-14:05

Group Photo

Lunch Break

14:05-14:35

K

Title: Nano-Hole Enhanced Local Field: Concept and Applications

Liaohai Chen, University of Illinois Chicago, USA

14:35-15:05	K	<p>Title: Detection of Counterfeit Coins Based on 3D Analysis and AI Algorithms</p> <hr/> <p>Ching Y Suen, Concordia University, Canada</p>
15:05-15:35	K	<p>Title: SonoPrint: Acoustically-Assisted Volumetric Additive Manufacturing</p> <hr/> <p>Prajwal Sanjay Agrawal, ETH Zurich, Switzerland</p>
Sessions		Additive Manufacturing, Powder Bed Fusion, 3D Printing in Aerospace & Defense, Nanotechnology Effects & Industrial Safety, Functional Nanomaterials
Session Chair		Prajwal Sanjay Agrawal , ETH Zurich, Switzerland
15:35-15:55	I	<p>Title: The Role of Nanosilver Ink Drying in the Aerosol Jet Printing Process</p> <hr/> <p>Wojciech Lapa, Wrocław University of Science and Technology, Poland</p>
15:55-16:15	I	<p>Title: Identification of Airborne Particle in Biological Samples of Human Body and Characterization</p> <hr/> <p>Emilia Visileanu, Researcher at INCDTP, Romania</p>
16:15-16:30		Refreshment Break
16:30-16:50	I	<p>Title: Digital Twin Driven Smart Manufacturing</p> <hr/> <p>Butt Javaids, Anglia Ruskin University, UK</p>
16:50-17:10	I	<p>Title: Utilization of Nanoparticles in Solar Thermal Energy Systems</p> <hr/> <p>Oguzhan Kazaz, University of Glasgow, UK</p>
17:10-17:30	I	<p>Title: Fluctuations in Energy of Multi-Phonon States and Features of Defects States Distribution of Microcrystalline Diamond</p> <hr/> <p>Valeri Ligatchev, Member of the Electrochemical Society, Singapore</p>
17:30-17:50	I	<p>Title: High Loaded Gold Clusters Deposited onto the Modified Mesoporous TiO₂ and their Applications</p> <hr/> <p>Anahita Motamedisade, Flinders University, Australia</p>
17:50-18:10	I	<p>Title: Hydrogen Storage Materials: Importance on Hydrogen Economy</p> <hr/> <p>Mohammad Faisal, Brunel University London, UK</p>

18:10-18:30

I

Title: Finite Element Analysis Study of Residual Stress in Laser Powder Bed Fusion Nickel-Based Alloy Lattice Structure

Yilong Wang, Huazhong University of Science and Technology, China

PO2

Poster

Title: An Agile Approach for Lunar Base Construction

Huiying Chen, The Hong Kong Polytechnic University, Hong Kong

****Closing the Conference for Day 2****



Next Event

ISNN2024

2nd International Summit on Nanotechnology and Nanomaterials

June 10-12, 2024 | Porto, Portugal

&

IS3DPAM2024

2nd International Conference on 3D Printing and Additive Manufacturing

August 26-28, 2024 | Valencia, Spain