

**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

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

<b>14:45-15:15</b>	<b>K</b>	Title: Best Practices for Global Commercialization in Additive Manufacturing <b>Beth Collington</b> , Director-Global Prosthetic Solutions/Zahn Dental of Henry Schein, USA
<b>15:15-15:45</b>	<b>K</b>	Title: Hollow Nanoreactors for Bioorthogonal Catalytic Synthesis in Living Systems <b>In Su Lee</b> , Director-Creative Research Initiative Center for Nanospace-Confined Chemical Reactions, South Korea
<b>15:45-16:15</b>	<b>K</b>	Title: Building-Edge Additive Manufacturing Technologies: 3D Printing Landscape for Next Generation Radio Frequency Applications <b>Stepan Lucyszyn</b> , Imperial College London, UK
<b>16:15-16:30</b>	<b>Refreshment Break</b>	
<b>Sessions</b>	<b>Graphene Nanotechnology, Engineered Nanoparticles, Nanomaterials for Renewable &amp; Sustainable Energy, Powder Bed Fusion, Metal 3D Printing</b>	
<b>Session Chair</b>	<b>Beth Collington</b> , Director-Global Prosthetic Solutions/Zahn Dental of Henry Schein, USA	
<b>16:30-16:50</b>	<b>I</b>	Title: Potassium Ions Pre-Intercalated Vanadium Oxide Cathodes for Aqueous Zn-Ion Batteries <b>Yinan Lu</b> , University College London, UK
<b>16:50-17:10</b>	<b>I</b>	Title: Investigation of Ti6Al4V Overhanging Rotational Parts with Minimal Clearances Produced by E-PBF <b>Melisa Altintas</b> , Lead Mechanical Engineer at Aselsan Inc, Turkey
<b>17:10-17:30</b>	<b>I</b>	Title: Plasmon-Enhanced Dual-Band Electrochromic Modulation <b>Junxin Wang</b> , University of Cambridge, UK
<b>17:30-17:50</b>	<b>I</b>	Title: Synthesis and Characterization of Mesoporous Silica Nanoparticles Generated from Briquette Coal Ash <b>Altantuya Ochirkhuyag</b> , Mongolian Academy of Science, Institute of Chemistry and Chemical Technology, Mongolia
<b>17:50-18:10</b>	<b>I</b>	Title: Amoxicillin Loaded Graphene Oxide from Plantain Stem and its Anti-Microbial Activity <b>Shobogun Alexander Ayomide</b> , Federal University of Technology, Nigeria

<b>18:10-18:30</b>	<b>I</b>	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
		<b>Xu Yang</b> , Huazhong University of Science and Technology, China
<b>PO1</b>	<b>Poster</b>	Title: Infrared Sintering of Silver Nanoparticles in Aerosol Jet Printing
		<b>Marcin Winnicki</b> , Wrocław University of Science and Technology, Poland

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

## Day 02, August 11, 2023

<b>Chair</b>	<b>Rong R. Wang</b> , Director-International Center for Sensor Science and Engineering, Illinois Institute of Technology, USA
<b>Co-Chair</b>	<b>Gregory Lavieu</b> , Director-U1316 Laboratory, Paris City University, France
<b>09:30-10:10</b>	<b>P</b> Title: Will be updated soon <b>Jing Bai</b> , University of Minnesota Duluth, USA
<b>10:10-10:50</b>	<b>P</b> Title: The Continuing Evolution of the Periodic Table via Quantum Field Theory <b>John Owen Roberts</b> , Independent Researcher Former Open University Tutor, UK
<b>10:50-11:05</b>	<b>Refreshment Break</b>
<b>11:05-11:45</b>	<b>P</b> Title: Nanotechnology in Photocatalysis: A New Vision of 1 Century Old Process <b>Diana Sannino</b> , University of Salerno, Italy
<b>11:45-12:25</b>	<b>P</b> Title: Experiences Setting up the World's Largest Robot Based 3D Printing Machinery (usable track length 40m) from Scratch <b>Stefan Garbereder</b> , Head of Innovation & Capability Development, Al Seer Marine, UAE
<b>12:25-13:05</b>	<b>P</b> Title: Additive Manufacturing of NiTi Shape Memory Alloys <b>Jan Van Humbeeck</b> , KU Leuven University, Belgium

<b>13:05-14:05</b>		<b>Group Photo</b>
<b>13:05-14:05</b>		<b>Lunch Break</b>
<b>14:05-14:35</b>	<b>K</b>	Title: Nano-Hole Enhanced Local Field: Concept and Applications <b>Liaohai Chen</b> , University of Illinois Chicago, USA
<b>14:35-15:05</b>	<b>K</b>	Title: Detection of Counterfeit Coins Based on 3D Analysis and AI Algorithms <b>Ching Y Suen</b> , Concordia University, Canada
<b>15:05-15:35</b>	<b>K</b>	Title: SonoPrint: Acoustically-Assisted Volumetric Additive Manufacturing <b>Prajwal Sanjay Agrawal</b> , ETH Zurich, Switzerland
<b>Sessions</b>	<b>Additive Manufacturing, Powder Bed Fusion, 3D Printing in Aerospace &amp; Defense, Nanotechnology Effects &amp; Industrial Safety, Functional Nanomaterials</b>	
<b>Session Chair</b>	<b>Prajwal Sanjay Agrawal</b> , ETH Zurich, Switzerland	
<b>15:35-15:55</b>	<b>I</b>	Title: The Role of Nanosilver Ink Drying in the Aerosol Jet Printing Process <b>Wojciech Lapa</b> , Wrocław University of Science and Technology, Poland
<b>15:55-16:15</b>	<b>I</b>	Title: Identification of Airborne Particle in Biological Samples of Human Body and Characterization <b>Emilia Visileanu</b> , Researcher at INCDTP, Romania
<b>16:15-16:30</b>		<b>Refreshment Break</b>
<b>16:30-16:50</b>	<b>I</b>	Title: Digital Twin Driven Smart Manufacturing <b>Butt Javaids</b> , Anglia Ruskin University, UK
<b>16:50-17:10</b>	<b>I</b>	Title: Utilization of Nanoparticles in Solar Thermal Energy Systems <b>Oguzhan Kazaz</b> , University of Glasgow, UK
<b>17:10-17:30</b>	<b>I</b>	Title: Fluctuations in Energy of Multi-Phonon States and Features of Defects States Distribution of Microcrystalline Diamond <b>Valeri Ligatch</b> , Senior Research Scientist at Institute of High Performance Computing, Singapore

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

PO3

Poster

Title: Brownmillerite Calcium Ferrite, a Promising Perovskite-Related Material in the Degradation of Tight Dye Under Ambient Conditions

**Zahra Noori**, University of Barcelona, Spain

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



Next Event

**ISNN2024**

**2<sup>nd</sup> International Summit on Nanotechnology and Nanomaterials**

**June 10-12, 2024 | Porto, Portugal**

**&**

**IS3DPAM2024**

**2<sup>nd</sup> International Conference on 3D Printing and Additive Manufacturing**

**August 26-28, 2024 | Valencia, Spain**