

Scientific Program

6th International Webinar on 3D Printing & Additive Manufacturing

Wednesday
April 13, 2022

Day 1 - April 13, 2022

11:00 - 11:10 Introduction

Oral Presentation

11:10 - 11:35 Increase Graphene Aerogel Durability for Sustaining form - stable Phase Change Materials (PCMS)
Chengbin Yu, Seoul National University, Korea

Keynote Presentation

11:35 - 12:10 Rapid Solid State Volumetric Additive Manufacturing for Any Environment
Wei Min Huang, Nanyang technological University, Singapore

12:10 - 12:45 *In situ* 3D Bioprinting for Tissue Engineering
Laila M. Montaser, Menoufia University, Egypt

Oral Presentation

12:45 - 13:10 TKR in Complex Secondary Osteoarthritis (SOA) of The Knee with Patient Specific Implant(PSI) - A Shift in Paradigm
Gabriel Nierenberg, Rambam Medical Center, Israel

13:10 - 13:35 3D Printing of Optics
Andreas Heinrich, Aalen University, Germany

Lunch (13:35 - 14:00)

14:00 - 14:25 An Empirical Model of Melt Pool Radiation in Powder Bed Fusion Systems
Marija Manevska Gomilšek, Renishaw d.o.o, Slovenia

14:25 - 14:50 The Impact of The Risk of Build Failure on Energy Consumption in Additive Manufacturing
Han Wang, University of Nottingham, United Kingdom

14:50 - 15:15 Laser Polishing for Post Processing of 3D - printed Polymer Parts
Karsten Braun, Fraunhofer Institute, Germany

15:15 - 15:40 Removal of Organic Pollutants from The Leather industry Wastewater Using Titanium dioxide (Ti₂) and Zinc oxide (ZNO) Nano Composite
Delia Teresa Sponza, Dokuz Eylül University, Turkey

15:40 - 16:05 3D Robotics
Alex Chortos, Purdue University, USA

16:05 - 16:30 Factors Affecting Ultimate Tensile Strength and Impact Toughness of 3D Printed Parts using Fractional Factorial Design
Amna Mazen Ali Mazen, University of Detroit Mercy, USA

16:30 - 16:55 The Impact of Exploiting Big Data, Additive Manufacturing and New Technologies for Extending the Product/Project Lifecycle in the Healthcare Sector
Kubiat Umoren Patrick, Madigan Army Medical Center, USA

End of Day 1

Scientific Program

6th International Webinar on 3D Printing & Additive Manufacturing

Thursday
April 14, 2022

Day 2 - April 14, 2022

Oral Presentations

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| 10:00 - 10:25 | Fabrication of Carbon Nanotubes on Si/SiO ₂ /Co Substrate by Chemical Vapor Deposition Technique Md. Ehasanul Haque , American International University - Bangladesh (AIUB), Bangladesh |
| 10:25 - 10:50 | Improving the Reliability Design of Mechanical Systems such as Refrigerator Seongwoo Woo , Ethiopian Technical University, Ethiopia |
| 10:50 - 11:15 | Removal of Textile Industry Wastewaters by A Polymeric Nano Graphene oxide (Go) Delia Teresa Sponza , Dokuz Eylül University, Turkey |
| 11:15 - 11:40 | Wet - Chemical Non - covalent Functionalization of CVD - Graphene: Molecular Doping and Its Effect on Electrolyte - Gated Graphene Field - Effect Transistor Characteristics M. Dieng , Ecole Polytechnique, France |
| 11:40 - 12:05 | Optimization of Linear, Third - order Nonlinear and Total Absorption Coefficients of A Coupled InAs/GaAs Lens - Shaped Core/Shell Quantum Dots in Terahertz Region Mohsen Choubani , Micro - Optoelectronic and Nanostructures Laboratory, Tunisia |
| 12:05 - 12:30 | N - AM Design to Manufacture of Complex Building Envelopes Single - layer Envelopes, Standard Profile Systems, and 3D printed Metal Nodes Alamir Mohsen , Lithium Designers GmbH, Germany |
| 12:30 - 12:55 | Graphene - based Hybrid Materials for Cancer Bioimaging and Photodynamic Therapy Gil Gonçalves , University of Aveiro, Portugal |

Poster Presentation

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| 12:55 - 13:10 | Dilution Effects on The Compensation Temperature in the Three - planar Structure of Nano - graphene: A Monte Carlo Study Zakaria Fadil , Mohammed V University in Rabat, Morocco |
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Oral Presentations

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| 13:10 - 13:35 | Digital Technologies and 3d Printing in Craniomaxillofacial Surgery and Dental Implantology Alex M. Greenberg , Columbia University, USA |
| 13:35 - 14:00 | The Rise of 2D Nanoelectronics Huamin Li , The State University of New York, USA |

End of Day 2