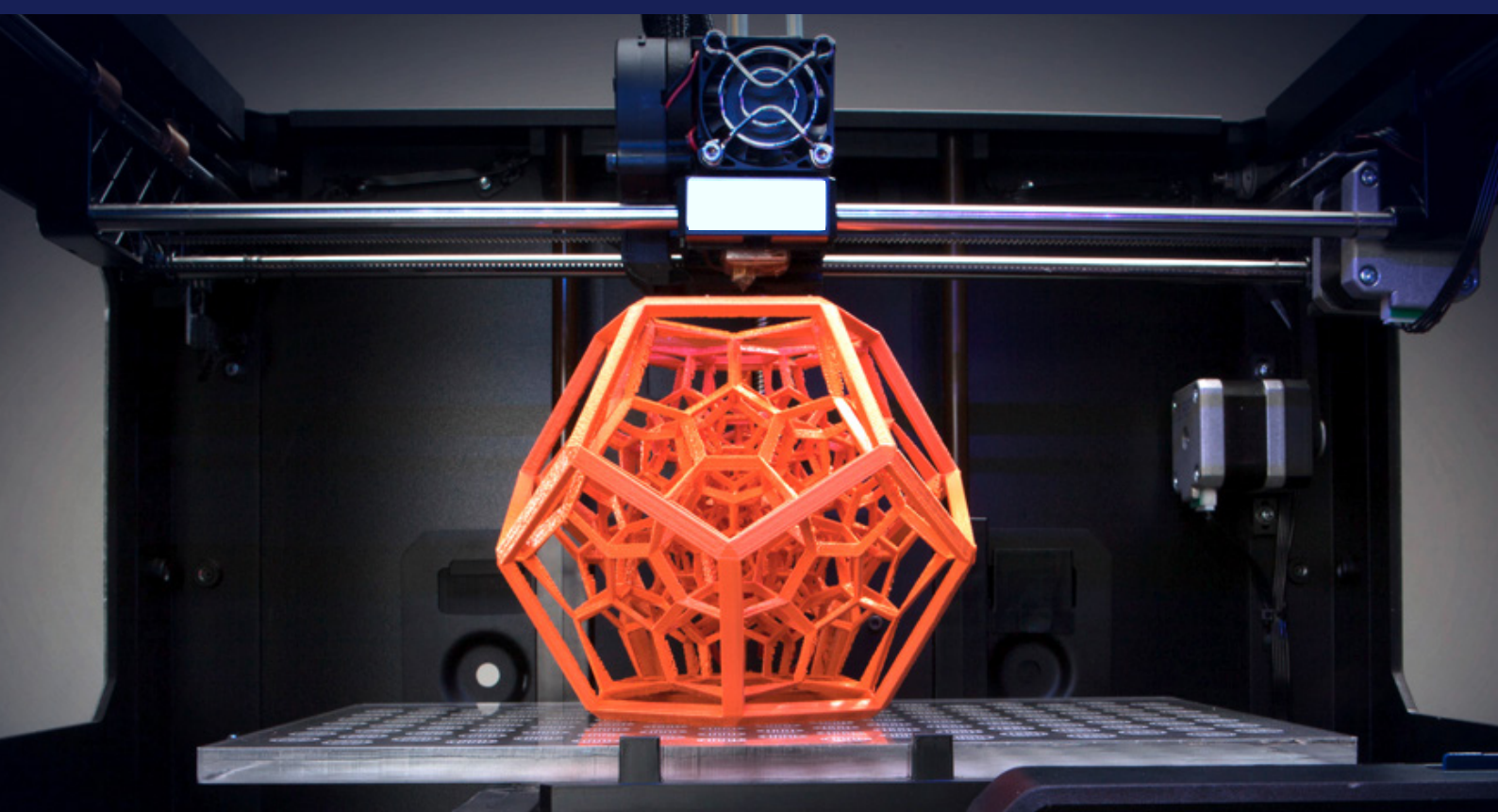


4th Webinar on

3D PRINTING & ADDITIVE MANUFACTURING

July 05-06, 2021 | 11:00 - 18:00 (British Time)



Coalesce Research Group

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Scientific Program

4th Webinar on 3D Printing & Additive Manufacturing

Monday
July 05, 2021

Day 1 - July 05, 2021 - British Time

11.00 - 11.10 Introduction

Keynote Presentations

11.10 - 11.40 Parametrization of lattices, a solution for customized Orthotic applications
David Alarco, Solo Lattices Company Ltd., Ireland

11.40 - 12.10 Xenos: from the Promise of Dawn (Silicene and Germanene) to Rising Stars (Stannene and Plumbene)
G Le Lay, Aix-Marseille University, France

Oral Presentations

12.10 - 12.35 Tissue engineering and three-dimensional printing in periodontal regeneration: A literature review
Simon Raveau, University of Nantes, France

12.35 - 13.00 A novel method for thermal characterization of superlattice sample
M. Pawlak, Nicolaus Copernicus University, Poland

Lunch (13:00 - 13:30)

13.00 - 13.25 The potential of employing portable 3D Scanners and 3D Printers as *in-situ* measurements systems: Case studies on archaeological artefacts and materials
Antreas Kantaros, University of West Attica, Greece

13.25 - 13.50 The True Amphipathic Nature of Pristine Graphene Flakes
K. Z. Milowska, University of Cambridge, Cambridge, UK

13.50 - 14.15 Many-body van Der Waals interactions beyond the dipole approximation
Dario Massa, University of Padua, Italy

14.15 - 14.40 Formation of a 3D-framework made of graphene-like carbon
Alexey V. Zaikovskii, Kutateladze Institute of Thermophysics SBAS, Russia

14.40 - 15.05 Direct 3D-printing of phosphate glass by Fused Deposition Modeling
Reda Mohammed Zaki, CNRS, University of Bordeaux, ICMCB, France

15.05 - 15.30 Fabrication of high impact polystyrene/reduced graphene oxide (HIPS/rGO) filament for fused filament fabrication (FFF) 3D printing
Marta Sieradzka, University of Bielsko-Biala, Poland

15.30 - 15.55 Multi Multi -layer transition in a spin 1/2 Ashkin Teller model with RKKY interaction
Amel Benmansour, University of Tlemcen, Algeria

15.55 - 16.20 Photoactivated Polymeric Bilayer Actuators Fabricated via 3-D Printing
Hai-Feng Ji, Drexel University, USA

16.20 - 16.45 New Piezoresistive Composite Material Based on Multilayer Graphene/Nanographite in Glassy Matrice for Pressure Sensor Applications
O. Correa, Unicamp, Brazil

Poster Presentation

16.45 - 17.00 Combined theoretical and experimental study of the adsorption of toxic chromate anionic species by tetrahexylphosphonium modified beidellite
P. Škorňa, Slovak Academy of Sciences, Slovakia

End of Day 1 Sessions

Scientific Program

4th Webinar on

3D Printing & Additive Manufacturing

Tuesday
July 06, 2021

Day 2 - July 06, 2021 - British Time

Keynote Presentation

- 10.00 - 10.30 Green Nanostructured Nickel Oxide : Material For Energy Conversion Devices
Ranjana Jha, Netaji Subhas University of Technology, India
- 10.30 - 11.00 Self-assembly of semiconductor quantum dots with porphyrin molecules: Energy relaxation processes and biomedical applications
Eduard Zenkevich, Belarussian National Technical University, Belarus

Oral Presentations

- 11.00 - 11.25 Customized Pelvic Implant Design Based on Symmetrical Analysis and 3D Printing
Yuan Chai, The University of Sydney, Australia
- 11.25 - 11.50 Two-Dimensional Materials Based Photocatalysts for Light-Induced H₂ Production
Jingrun Ran, University of Adelaide, Australia
- 11.50 - 12.15 Strain effect on the edge states of HfSe₂ nanoribbons
Hsin-Mei Ho, National Central University, Taiwan
- 12.15 - 12.40 Prototype of a Lower Cost 3D Printer by Using Arduino Mega 2560 Controller without a Bed Temperature
Mahros Darsin, University of Jember, Indonesia
- 12.40 - 13.05 Toward the optimization of 3D printing process using mechanical, thermal, and rheological characteristics of 3D-printed parts
Hamid Reza Vanaei, Arts et Metiers Institute of Technology, France
- 13.05 - 13.30 Effect of SrHA Nanoparticle Concentration on the Mechanical Performance and Bioactivity of 3D Printed PEEK Composites
Faisal Manzoor, Ulster University, United Kingdom

Lunch (13:30 - 14:00)

- 14.00 - 14.25 Exploiting Nanoparticles to Enhance Essential Oil Production in Mentha Species under Changing Environment
M. Naeem, Aligarh Muslim University, India
- 14.25 - 14.50 Geometrical confinement of Vortex Domain wall in constricted magnetic nanowire for storage memory devices
Mohammed Al Bahri, A'Sharqiyah University, Oman
- 14.50 - 15.15 Process optimization in 3D printing of semi-crystalline polymers using simulation
Anto Antony Samy, Ulster University, United Kingdom
- 15.15 - 15.40 Preparation, characterization and *in vitro* antibacterial property of Ciprofloxacin-loaded nanostructured lipid carrier for treatment of Bacillus subtilis infection
Petra Nnamani, University of Nigeria, Nigeria
- 15.40 - 16:05 CVD Graphene Growth on Liquid Substrates
Maryam A. Saeed, Kuwait Institute for Scientific Research (KISR), Kuwait

End of Day 2 Sessions