

*2<sup>nd</sup> Webinar on*  
**3D PRINTING &  
ADDITIVE  
MANUFACTURING**

NOVEMBER 18-19, 2020 | GREENWICH MEAN TIME

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**Coalesce Research Group**

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# Scientific Program

2<sup>nd</sup> Webinar on

## 3D Printing & Additive Manufacturing

**Wednesday**  
**Nov 18, 2020**

### Day 1 - November 18, 2020

10:20 - 10:30 Introduction

#### Keynote Presentation

10:30 - 11:00 3D bioprinting for the future of healthcare  
**Wai Yee Yeong**, Nanyang Technological University, Singapore

#### Oral Presentations

11:00 - 11:30 Rapid 3D printing in solid state: From concept to demonstration  
**Wei Min Huang**, Smart MaterTech, Singapore

11:30 - 12:00 A pilot study on microalgal-based biopolymers and nano/microplastics removal: The perfect match  
**Cesar Cunha**, University of Madeira, Portugal

12:00 - 12:30 Broadening 3D horizons: A functional polydimethylsiloxane-based microfluidic chip obtained through light-activated 3D printing  
**Gustavo Gonzalez**, Polytechnic of Turin, Italy

12:30 - 13:00 Can additive manufacturing truly "Make Lignin Great Again"  
**Marie-Pierre Laborie**, University of Freiburg, Germany

#### Lunch (13:00 - 13:30)

13:30 - 14:00 Evaluation of functionality in metal/metal oxide-ceramic through X-ray diffraction technique  
**Madhumita Mukhopadhyay**, CSIR, India

14:00 - 14:30 Self-assembled nanostructures based on tetrapyrrolic macrocycles: Formation principles, spectroscopy and photochemistry  
**E. Zenkevich**, Belarusian National Technical University, Belarus

14:30 - 15:00 Nanocatalysts—from the synthesis to advanced electron nanoscopy investigation  
**Maria Chiara Spadaro**, Catalan Institute of Nanoscience and Nanotechnology, Spain

15:00 - 15:30 New sustainable processing of RE-based magnetic materials  
**Spomenka Kobe**, Jozef Stefan Institute, Slovenia

15:30 - 16:00 Solid state photopolymerization preparation of polymeric organic conductors and possible superconductor  
**Bruce S Hudson**, Syracuse University, USA

#### End of Day 1 Sessions

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## 3D Printing & Additive Manufacturing

Thursday  
Nov 19, 2020

### Day 2 - November 19, 2020

#### Oral Presentations

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|---------------|--|
| 10:00 - 10:30 | Predicting the damage of thermally degraded CFRP by means of multivariate data analysis<br><b>Tanja Vetter</b> , Bundeswehr University Munich, Germany                                       |
| 10:30 - 11:00 | Applying hot melt adhesives filled with carbon nanotubes as the filaments in FFF 3D printing process onto textiles<br><b>Paulina Latko-Duralek</b> , Warsaw Univeristy of Technology, Poland |
| 11:00 - 11:30 | Electrical behavior of some composite of polymeric materials/metal powder<br><b>Doina Elena Gavrilă</b> , University Politehnica Bucharest, Romania  |
| 11:30 - 12:00 | Synthesis of sub-microcrystalline TiAl based alloy powder using high energy ball milling<br><b>Vijay Navaratna Nadakuduru</b> , Malaviya National Institute of Technology Jaipur, India      |
| 12:00 - 12:30 | Mass Customization: A key growth factor to the additive manufacturing industry<br><b>Jonathan Borduas</b> , Shapeshift 3D, Canada  |

#### Poster Presentations

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|---------------|--|
| 12:30 - 12:45 | Catalytic hydrogenation of CO <sub>2</sub> to methane over transition metals (Ni, Co) supported on nano-ceria<br><b>Michalis Konsolakis</b> , Technical University of Crete, Greece  |
| 12:45 - 13:00 | Deposition effects of AZO thin films under different power ramps prepared by RF sputtering<br><b>Carranza Sanchez Ana Cristina</b> , Meritorious Autonomous University of Puebla, Mexico   |
| 13:00 - 13:15 | Influence of the crosslinking agent HDODA on the rheological and physicochemical properties of photocured conductive PANI/acrylate composites<br><b>Goretti Arias Ferreira</b> , University of A Coruna, Spain                       |
| 13:15 - 13:30 | Evaluation of environmental, technical, and economic indicators of fused deposition modeling process<br><b>Sonia Ezeddini</b> , Altran Ouest, France   |
| 13:30 - 13:45 | Nanosafety of iron oxide nanoparticles in the era of nanomedicine applications<br><b>Abdelaziz Saafane</b> , Armand-Frappier Health Biotechnology, Canada  |
| 13:45 - 14:00 | Formulation and <i>in vitro</i> evaluation of albumin nanoparticles of Palbociclib<br><b>Vishwanath Kuravattimath</b> , Dayananda Sagar University, India  |
| 14:00 - 14:15 | Synthesis and characterization of composite electrode LiMn <sub>2</sub> O <sub>4</sub> -LiMn <sub>1.75</sub> Al <sub>0.25</sub> O <sub>4</sub> materials for Li-ion batteries<br><b>Aisha Abdul Quddus</b> , Qatar University, Qatar |
| 14:15 - 14:30 | Rheological properties and thermal stability of annealed film of poly(lactic acid)<br><b>Assia ZENNAKI</b> , Abou Bekr Belkaid University, Algeria   |

#### End of Day 2 Sessions

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