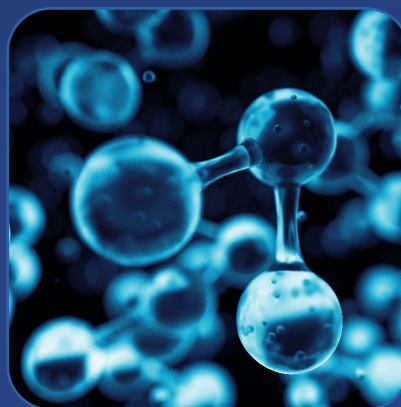
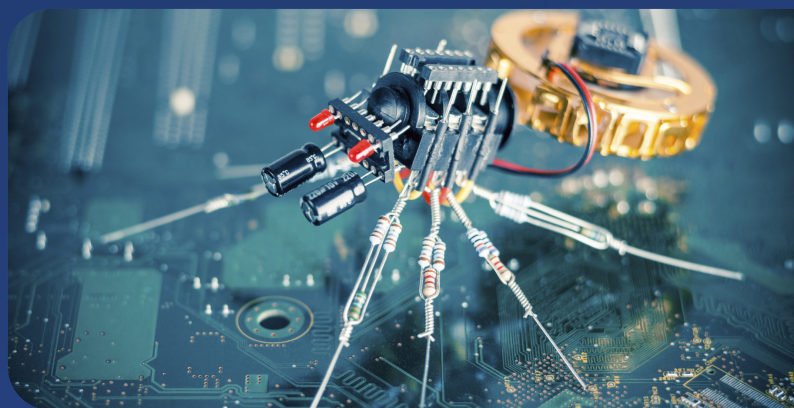


Webinar on
**NANOTECHNOLOGY &
NANOMATERIALS**

JULY 29-30, 2020 | 11:00 – 18:00 EDT



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Scientific Program

Webinar on Nanotechnology & Nanomaterials

Wednesday
Jul 29, 2020

Day 1 - July 29, 2020

11:00 - 11:20 Introduction

11:20 - 12:00 Analysis of the effects of the microstructural characteristics on mechanical properties of 3D-printed basalt fiber-reinforced PLA matrix composites
Soon Hyung Hong and Siwon Yu, KAIST, South Korea

12:00 - 12:40 High performance flexible transparent electrodes fabricated by electric-field driven micro-scale 3D printing and micro transfer technology
Xiaoyang Zhu, Qingdao University Technology, China

12:40 - 13:20 Food-safe chitosan-zein dual layer coating for water and oil repellent paper substrates
Muhammad Rabnawaz, Michigan State University, USA

Lunch (13:20 - 14:00)

14:00 - 14:40 Workflow development of an additive manufactured novel implant abutment in titanium
Les Kalman, Western University, Canada

14:40 - 15:20 Dissolvable tattoo electronics for biomedicine
Huanyu Cheng, Penn State University, USA

15:20 - 16:00 Self-assembled nanocomposites based on semiconductor quantum dots and porphyrin molecules: Interface chemistry, optical properties and energy relaxation processes
Eduard Zenkevich, National Technical University of Belarus, Belarus

16:00 - 16:40 Towards non-assembly 3D printing for steerable surgical devices
Costanza Culmone, Delft University of Technology, Netherlands

16:40 - 17:10 Design of non-assembly mechanisms
Kirsten Lussenburg, Delft University of Technology, Netherlands

17:10 - 17:50 A cost elimination linear model for 3D printing networks
Maria Mavri and Evgenia Fronimaki, University of Aegean, Greece

End of Day 1 Sessions

Scientific Program

Webinar on Nanotechnology & Nanomaterials

Thursday
Jul 30, 2020

Day 2 - July 30, 2020

11:00 - 11:10	Introduction
11:10 - 11:50	Photocatalytic enhancement of ZnS nanoparticle coated on the ZnO thin film with heat treatment Qiyang Zhang , Nagoya Institute of Technology, Japan
11:50 - 12:30	Conditioning of and hoc thermomechanical equipment for creep tests: Issues related to creep response prediction Arenas C.D , Instituto Sabato, Argentina
12:30 - 13:10	Role of nanotechnology in environment and agriculture sectors: The current and future vision situation Zakaria Fouad , National Research Centre, Egypt

Lunch (13:10 - 13:50)

13:50 - 14:30	Effect of rare-earth elements on glass formation in low purity Zr-based metallic glasses Krzysztof Pajor , AGH University of Science and Technology, Poland
14:30 - 15:10	4D printing of shape memory polymers: An overview Sara Valvez , University of Beira Interior, Portugal
15:10 - 15:50	Structural, morphological properties and band alignment in electrodeposited ZnO/MgO superlattice Egwunyenga-Opene Nkechi Josephine , Delta State polytechnic Ogwashi-uku, Nigeria

Poster Presentation

15:50 - 16:10	Numerical modeling of the magnetic soft matter response to an oscillating field Alexander Ambarov , Ural Federal University, Russia
16:10 - 16:30	Theoretical study of the immobilized superparamagnetic ferroparticles Anna Solovyova , Ural Federal University, Russia
16:30 - 16:50	Synthesis and characterization of reactive silica using halloysite clay Tchanang Gustave , University of Yaounde I, Cameroon
16:50 - 17:30	New star-shaped and polycatenar nanomaterials with azo and oxadiazole groups. Molecular design, mesomorphism prediction and synthesis Nadezhda V. Usol'tseva , Ivanovo State University, Russia
17:30 - 17:10	Rheological characteristics of "Vaseline-Carbon nanoparticles" compositions as a model system of plastic lubricants Nadezhda V. Usol'tseva , Ivanovo State University, Russia

End of Day 2 Sessions

Webinar on

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