

Webinar on

MATERIALS SCIENCE & NANOTECHNOLOGY

JULY 29-30, 2020 | 11:00 – 18:00 EDT

Coalesce Research Group
33 Market Point Dr,
Greenville, SC 29607, USA

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Scientific Program

Webinar on

Material Science & Nanotechnology

Wednesday

Jul 29, 2020

Day 1 - July 29, 2020

11:00 - 11:20 Introduction

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

12:00 - 12:40 Title: 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 Title: 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 Title: Workflow development of an additive manufactured novel implant abutment in titanium
Les Kalman, Western University, Canada

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

15:20 - 16:00 Title: 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 Title: Towards non-assembly 3D printing for steerable surgical devices
Costanza Culmone, Delft University of Technology, Netherlands

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

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

End of Day 1 Sessions

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Thursday
Jul 30, 2020

Day 2 - July 30, 2020

11:00 - 11:10 Introduction

11:10 - 11:50 Title: 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 Title: 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 Title: 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 Title: 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 Title: 4D printing of shape memory polymers: An overview

Sara Valvez, University of Beira Interior, Portugal

15:10 - 15:50 Title: 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 Title: Numerical modeling of the magnetic soft matter response to an oscillating field

Alexander Ambarov, Ural Federal University, Russia

16:10 - 16:30 Title: Theoretical study of the immobilized superparamagnetic ferroparticles

Anna Solovyova, Ural Federal University, Russia

16:30 - 16:50 Title: Synthesis and characterization of reactive silica using halloysite clay

Tchanang Gustave, University of Yaounde I, Cameroon

16:50 - 17:30 Title: 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 Title: 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

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