

# Global Scientific Guild Conference

## Program

### 2<sup>nd</sup> Global Webinar on Materials Science and Engineering

**November 06-07, 2021**

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[materials@gsguild.org](mailto:materials@gsguild.org)

<https://www.globalscientificguild.com/materials-science/>

# Day-1

November 06, 2021

Timing: 11:00-17:30 GMT (London Time)

11:00-11:15 Introduction/Opening Ceremony

11:15-11:45 **Title: Nanomaterials in the Virosphere**

Dr. Per Arvid Löthman, Foviatech GmbH, Germany

11:45-12:15 **Title: Compact heat exchangers with metal foam: Numerical approach**

Prof. J.C. Umavathi, Gulbarga University, India

12:15-12:45 **Title: Processing and conversion of REs of hazardous nuclear waste into potential apatite ceramic product**

Dr. Buavaneswari Gopal, Vellore Institute of Technology, India

12:45-13:15 **Title: Sputtered bioactive thin films**

Dr. Alina Vladescu, National Institute of RD for Optoelectronics, Romania

13:15-13:30 **Break**

13:30-14:00 **Title: CO2 Capture applied to the Portuguese Cement Industry**

Ms. Melissa Bacatelo, c5Lab, Portugal

14:00-14:30 **Title: Biodegradable polymeric implants for osteosynthesis**

Mr. Dias Tastanbekov, KazNU, Center for BioEnergy Research, KAZALFATECH Ltd., Kazakhstan

14:30-15:00 **Title: Using new bio-inhibitors to enhance the corrosion resistance of carbon steel in acidic solutions**

Dr. Mahboobeh Azadi, Semnan University, Semnan, Iran

15:00-15:30 **Title: SPD as a powerful tool for nanostructure fabrication in low-carbon steel**

Dr. Anatoliy Zavdoveev, PEWI NAS of Ukraine, Ukraine

15:30-15:45 **Break**

15:45-16:15 **Title: Novel CVD growth method of diamond materials for advanced science and engineering applications**

Dr. Awadesh Kumar Mallik, Hasselt University, Belgium

16:15-16:45 **Title: Atomic-Scale Analysis of Fracture in Ceramic Nanocomposites**

Dr. Fazle Elahi, University of Delaware, United States

16:45-17:15 **Title: Advanced Sub Zero Manufacturing of Glass and Ceramic as a Polymer**

Mr. Daniel Clark, T3DP, United States

17:15-17:30 **Panel Discussion**

## Day 1 Ends

# Day-2

November 07, 2021

Timing: 11:00-17:30 GMT (London Time)

- 11:00-11:30** **Title: Physical Factors and Lattice Reactions Governing Reversibility in Shape Memory Alloys**  
Prof. Osman Adiguzel, Firat University, Turkey
- 11:30-12:00** **Title: Modeling of Swelling Deformation of Hydrogel for Manipulating Stem Cells Differentiation**  
Ms. Tzu-han Ma, SMCM Lab, National Yang Ming Chiao Tung University, Taiwan
- 12:00-12:30** **Title: Interlocked graphene oxide based narrow channels for water desalination through forward assimilation**  
Dr. Padmavathy Nagarajan, Indian Institute of Science, Bangalore, India
- 12:30-13:00** **Title: Virtual reality simulations of void structure, and absolute and relative permeability, in nano- to macro-scale materials, including nuclear reactor graphite and tight-oil shale**  
Prof. G Peter Matthews, PoreXpert Ltd, United Kingdom
- 13:00-13:15** **Break**
- 13:15-13:45** **Title: Metal Oxide based Nanostructured material for Electrochemical Non Enzymatic Biosensor and energy storage**  
Dr. Lichchhavi, Indian Institute of Technology Hyderabad, India
- 13:45-14:15** **Title: Stereolithographic Additive Manufacturing of Ceramic Components with Geometric Structures**  
Prof. Soshu Kiriara, Osaka University, Japan
- 14:15-14:45** **Title: NiFe Layered double hydroxide-Decorated N-Doped Entangled-Graphene Framework: A Robust Water Oxidation Electrocatalyst**  
Mr. Narugopal Manna, National Chemical Laboratory, India
- 14:45-15:15** **Title: Development of novel thickening formulations by using NADES as matrix base**  
Dr. Esperanza Cortes Triviño, University of Huelva, Spain
- 15:15-15:30** **Break**
- 15:30-16:00** **Title: Thermal and structural analysis of polycaprolatone/pluronic blends films obtained from thermomechanical processes**  
Dr. Adrián Tenorio-Alfonso, University of Huelva, Spain
- 16:00-16:30** **Title: A Carbon Fiber Technology Demonstrator – XNG Door Made of Recycled Carbon Fiber Mat**  
Zhi-Cheng Yu, ED&D Service, Canada
- 16:30-17:00** **Title: Synthesis and Characterization of Biochar for use as Supports for Electrochemical Co2 Reduction**  
Prof. Rocio garcia, Autonomous University of Zacatecas, Mexico
- 17:00-17:30** **Panel Discussion**

## Day 2 Ends

# Vote of Thanks

[www.globalscientificguild.com](http://www.globalscientificguild.com)



## Next Event:

# 3<sup>rd</sup> Global Webinar on Materials Science and Engineering

*March 11-13, 2022*

*Contact Info:*

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