

Global Scientific Guild Conference

Program

3rd Global Webinar on Materials Science and Engineering

March 11-13, 2022

Conference Chairman



Dr. Per Arvid Lothman
*Foviatech GmbH, Hamburg,
Germany*

Conference Co-Chairman



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

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Day-1

March 11, 2022

Timing: 10:00-15:10 Greenwich Mean Time (GMT)

10:00-10:10 Introduction/Opening Ceremony

10:10-10:40 **Title: Potential of advanced membrane materials as alternative barriers against virus**

Prof. Per Arvid Löthman, Foviatech GmbH, Hamburg, Germany

10:40-11:15 **Title: Beyond Octave-Spanning Nonlinear Spectral Broadening in Silicon Nitride Slot Waveguide**

Prof. Yang Yue, Xi'an Jiaotong University, China

11:15-11:45 **Title: Aerogels: Sol-Gel Chemistry, Properties and Applications**

Dr. Vinayak G. Parale, Yonsei University, South Korea

11:45-11:50 Break

11:50-12:15 **Title: Resolution of the cationic distribution in $\text{Cu}_{22}\text{Fe}_8\text{Ge}_4\text{S}_{32}$ by synchrotron resonant powder diffraction: A case study and guidelines for analogous compounds**

Dr. Laura Paradis-Fortin, Academia Sinica, Taiwan

12:15-12:45 **Title: Nanomaterials for biomedical imaging and cancer radiotherapy**

Dr. Gerard Tobias (ICMAB-CSIC), Barcelona, Spain

12:45-13:15 **Title: Electrically conducting micropolar nanofluid with heat source/sink over a wedge: Ion and Hall currents**

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

13:15-13:20 Break

13:20-13:55 **Title: Multicomponent High-Entropy Cantor alloys**

Prof. Brian Cantor, Brunel University, UK

13:55-14:20 **Title: Electronic Grade 2D films for Emerging Micro-Devices Applications**

Dr. Xiangming Xu (KAUST), Saudi Arabia

14:20-14:55 **Title: Global Warming Due to Biomaterials ?**

Prof. Thomas J. Webster, Interstellar Therapeutics, USA

15:10-15:30 Panel Discussion

Day 1 Ends

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Day-2

March 12, 2022

Timing: 10:00-15:00 Greenwich Mean Time (GMT)

10:00-10:35 Title: **The Extended Galerkin/Rayleigh-Ritz Method for Approximate Solutions of Nonlinear Vibration Equations**

Prof. Ji Wang, Ningbo University, China

10:35-11:00 Title: **Evaluation of 3D-printed recycled PEEK as main CubeSat structure material**

Dr. Fahd Moumni, MicroOrbiter Inc., Tokyo, Japan

11:00-11:35 Title: **Lithium-ion batteries challenges for the 21st century**

Prof. Rachid Yazami, Founding Director of KVI PTE LTD, Singapore

11:35-11:40 Break

11:40-12:05 Title: **Recent Advances in Oxygen Scavenger (OS) Additives to Increase the Circularity of Multilayer Packaging Films**

Dr. Lucía Pérez Amaro, Laboratorio Materiali Polimerici Ecocompatibili - LMPE Srl S, Italy

12:05-12:35 Title: **Prospects and challenges for MXenes bioactivity in vitro**

Prof. Agnieszka Maria Jastrzębska, Warsaw University of Technology, Poland

12:35-13:05 Title: **Mechano-electrically active biomaterials for cardiac tissue engineering**

Dr. Clarisse Ribeiro, University of Minho, Portugal

13:05-13:10 Break

13:10-13:40 Title: **Design methodology for composite structures by controlling and optimizing the evolution of polymer properties during processing**

Dr. Stephanie G Nunes, Riga Technical University, Latvia

13:40-14:10 Title: **The strategies to avoid constraints of the zinc-based alloys in absorbable stenting applications**

Dr. Morteza S. Ardakani, Michigan Technological University, USA

14:10-14:40 Title: **Undoped and Ce-Doped NaSICON Enabled by Mechanical-Activation-Enhanced-Reaction**

Prof. Shan-Ju Chiang, North Central College, USA

14:40-15:00 Panel Discussion

Day 2 Ends

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Day-3

March 13, 2022

Timing: 10:00-14:45 Greenwich Mean Time (GMT)

- 10:00-10:25** Title: Shape Reversibility and the Role of Lattice Reactions in Shape Memory Alloys
Prof. Osman Adiguzel, Firat University, Turkey
- 10:25-10:55** Title: Synthesis of highly Li-ion conductive garnet-type solid ceramic electrolytes by solution-process-derived sintering additives
Dr. Nataly Carolina Rosero-Navarro, Hokkaido University, Japan
- 10:55-11:25** Title: Mesophase Transition and Fire Retardancy Behaviour of Hexasubstituted Cyclotriphosphazene Molecules Containing Different Terminal Groups
Dr. Zuhair Jamain, Universiti Malaysia Sabah (UMS), Malaysia
- 11:25-11:30** Break
- 11:30-12:00** Title: Hybrid Polymer Nanofiber-Based Triboelectric-Piezoelectric Hybrid Nanogenerators
Dr. Ayse Bedeloglu Bursa, Technical University, Turkey
- 12:00-12:25** Title: Preparation of nano-structured ZnO thin films and enhancement of photocatalytic activity under visible light
Dr. Ilyass JELLAL, Ibn Tofail University, Kenitra, Morocco
- 12:25-12:55** Title: Failure assessment of steel pipes using non-standard ring specimens
Dr. Marko Rakin, University of Belgrade, Serbia
- 12:55-13:00** Break
- 13:00-13:30** Title: Stereolithographic Additive Manufacturing of Ceramic Components with Multi-Dimensional Structures
Prof. Soshu Kirihara, Osaka University, Japan
- 13:30-14:00** Title: Nanomaterials for Sensors
Prof. Valentyn Smyntyna, Odessa National I. I. Mechnikov University, Ukraine
- 14:00-14:25** Title: Plant-based polymer nanoparticles for drug delivery applications
Dr. Janire Peña-Bahamonde, University of Houston, USA
- 14:25-14:45** Panel Discussion

Day 3 Ends

Next Event:

4th Global Webinar on Materials Science and Engineering

July 15-17, 2022

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