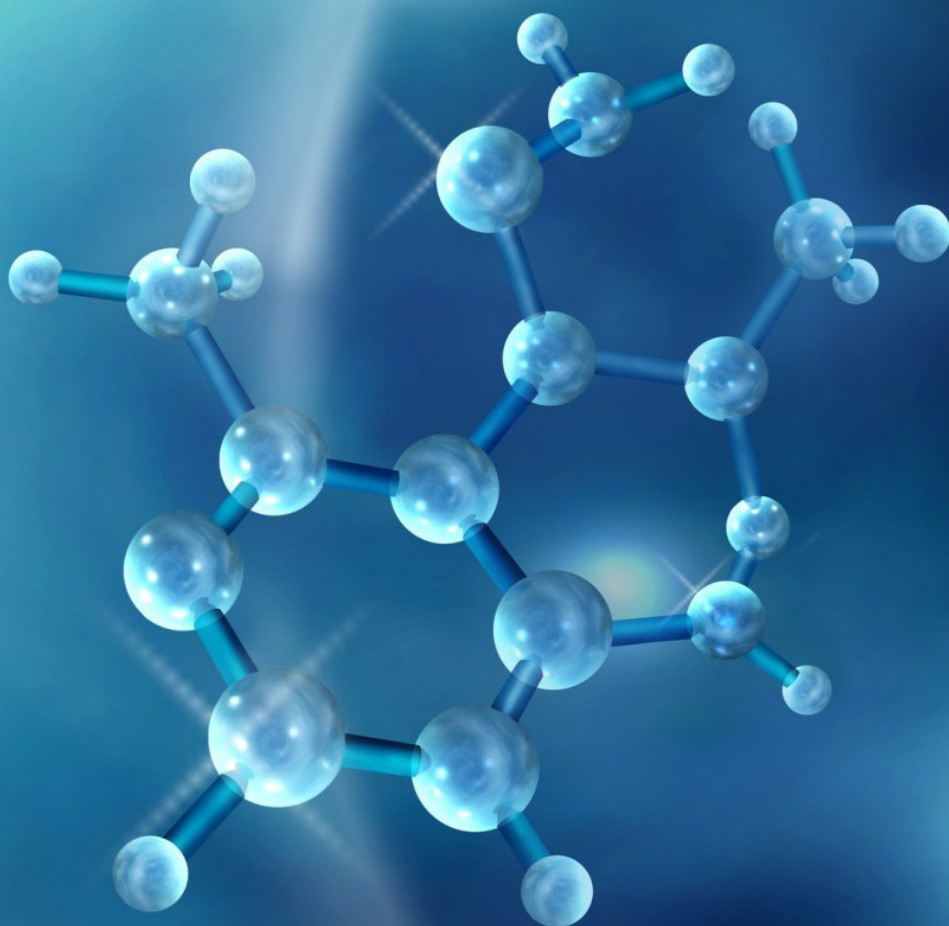


Scientific Program

31ST MATERIALS SCIENCE AND ENGINEERING CONFERENCE: ADVANCEMENT & INNOVATIONS

October 15-17, 2018 Helsinki, Finland



MATSCIENGG 2018

Conference Series llc Ltd

47 Churchfield Road, London, W3 6AY, UK
Tel: +1-201-380-5561, Toll No: +44-2088190774
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09:00-09:30

Registration Opens

Aalto

09:30-10:00

Opening Ceremony

Introduction

10:00-11:00

Keynote Presentation

Title: Dramatic new rogue and solitonic pathways controlled by meta-materials

Allan D Boardman, University of Salford, UK



11:00-11:30

Networking and Refreshments Break with Group Photo

Sessions: Fibers and Composites | Nanomaterials and Nanotechnology | Polymer Science and Technology | Mechanics, Characterization Techniques and Equipment's

Session Chair: **Rosalinda Caringella**, CNR-ISMAL, Italy

11:30-12:00

Title: Nanoparticles for soft ferrites: Influence on sintered microstructure

Carolina Clausell Terol, Jaume I University, Spain

12:00-12:30

Title: Novel flax composites functionalized by polypyrrole for shipbuilding application

Rosalinda Caringella, CNR-ISMAL, Italy

12:30-13:00

Title: The preparation and characterization of polyacrylonitrile fiber-g-poyl (hydroxyethyl methacrylate) copolymer by graft copolymerization technique

Meral Karakisa Sahin, Ankara University, Turkey

Lunch Break 13:00-14:00 @ Restaurant

14:00-14:30

Title: Investigation of cyanoacrylate adhesive bond curing and durability using Raman spectroscopy and electrochemical impedance spectroscopy

Kevin Raheem, Focas Research Institute, Ireland

14:30-15:00

Title: Development of high strength-high Porosity Si₃N₄ bodies via a modified gel-casting process

Amir Parsi, Iran University of Science and Technology, Iran

15:00-15:30

Title: Elaboration of new types, environmentally safe fire-extinguishing powders and establish the conditions of extinguish optimum and effective use of such powders

Lali Gurchumelia, R Agladze Institute of Inorganic Chemistry and Electrochemistry, Georgia

15:30-16:00

Title: Dry sliding wear and slurry erosion behavior of cryogenic treated permanent moulded austempered ductile iron (Video Presentation)

Jeevan B, India

Networking and Refreshments Break 16:00-16:30 @ Foyer

Panel Discussion

Aalto

10:00-10:30

Keynote Presentation

Title: Lipidic additives for polymeric materials
 Vincent Lapinte, Charles Gerhardt Institute, France


Session: Polymer Science and Technology | Bone Tissue Engineering | Nano Composites | Nano Lithography | Electrical, Optical, and Magnetic Materials

Session Chair: **Meryem Kalkan Erdogan**, Ankara University, Turkey

10:30-11:00

Title: Superheated water hydrolysis of waste wool to obtain organic nitrogen fertilizers
 Marina Zoccola, CNR-ISMAL, Italy

Networking and Refreshments Break 11:00-11:30 @ Foyer

11:30-12:00

Title: Novel 3D keratin scaffold design for bone tissue engineering
 Alessia Patrucco, CNR-ISMAL, Italy

12:00-12:30

Title: Preparation of conductive polyaniline/metacryloyl modified-poly (vinyl alcohol) thin films and investigation of their usability in the reduction of morphologically different Ag particles
 Meryem Kalkan Erdogan, Ankara University, Turkey

12:30-13:00

Title: Utility of camphor as diluent for lithography-based ceramic 3D printing technique
 Yun Hee Lee, Korea University, South Korea

Lunch Break 13:00-14:00 @ Restaurant

14:00-14:30

Title: Polymer composite with soft magnetic Fe-Co nano-powders obtained by cavitation method
 Kholodkov N S, National University of Science and Technology MISIS, Russia

14:30-15:00

Title: Naval Vest
 Kaustav B. Arya, Institute of Advanced Study in Science and Technology, India

15:00-15:30

Title: Some features of the ductile and gray iron microstructures providing increase of their impact resistance
 Igor Tkachenko, Priazovsky State Technical University, Ukraine

15:30-16:00

Title: Preparation and evaluation of poly [2-amino-4(1-benzyl-1H-indol-3-yl) thiophene-3-carbonitrile] as corrosion inhibitor of C-steel in the acidic medium
 Rasha Abdel Baseer, National Research Centre, Egypt

Networking and Refreshments Break 16:00-16:30 @ Foyer

Panel Discussion

Aalto

Workshop on Advanced Materials

10:00-11:00

Title: Kaustav B. Arya, Institute of Advanced Study in Science and Technology, India

Networking and Refreshments Break 11:00-11:30 @ Foyer

Poster Presentations @ 11:30-12:30

P-01

Title: **Compatibilization of polypropylene and recycled polyethylene terephthalate blends with methacrylate glycidyl based copolymers**

Armenio C Serra, University of Coimbra, Portugal

P-02

Title: **Synthesis of new-type Ag meso-particles for ultrasensitive SERS activity**

Hengwei Qiu, Xi'an Jiaotong University, China

P-03

Title: **Optimize the performance of graphene-based resistive random access memory device with the effective decoration of MoS₂**

Minghui Cao, Xi'an Jiaotong University, China

P-04

Title: **The effect of hydrolyzed cellulose pulp as a filler for LPDE**

Jorge F J Coelho, University of Coimbra, Portugal

P-05

Title: **Preparation and properties of chitosan/nano-diamond solutions and films**

Arina A Sukhova, Institute of Macromolecular Compounds of the Russian Academy of Sciences, Russia

P-06

Title: **Regenerated cellulose fibers spun from 1-ethyl-3-methylimidazolium diethyl phosphate/dimethyl sulfoxide co-solvent systems**

Jiaping Zhang, Shinshu University, Japan

P-07

Title: **Effect of degeneracy in graphite particle Aspect Ratio (AR) on some mechanical properties of as-cast Spheroidal Graphite Iron (SGI)-Compacted Graphite Iron (CGI) cast iron series**

Benjamin I Imasogie, Obafemi Awolowo University, NIGERIA

P-08

Title: **Microstructural development in nanoferrites**

Antonio Barba Juan, Jaume I University, Spain

P-09

Title: **Evaluation of mechanical properties of carbon fiber considering size effect**

Jae-Moon Im, Hanbat National University, South Korea

Lunch Break 12:30-13:30 @ Restaurant

Panel Discussion

Closing Ceremony

