Scientific Program

31st Materials Science and Engineering Conference: Advancement & Innovations

October 15-17, 2018  Helsinki, Finland
**Monday 15th October, 2018**

09:00-09:30  
Registration Opens

09:30-10:00  
Opening Ceremony

**Keynote Presentation**

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

Allan D Boardman, University of Salford, UK

10:00-11:00  
Networking and Refreshments Break with Group Photo

11:00-12:00  
Sessions: Fibers and Composites | Nanomaterials and Nanotechnology | Polymer Science and Technology | Mechanics, Characterization Techniques and Equipment's

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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<tbody>
<tr>
<td>11:30-12:00</td>
<td><strong>Title: Nanoparticles for soft ferrites: Influence on sintered microstructure</strong></td>
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<td>Carolina Clausell Terol, Jaume I University, Spain</td>
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<td>12:00-12:30</td>
<td><strong>Title: Novel flax composites functionalized by polypyrrole for shipbuilding application</strong></td>
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<td>Rosalinda Caringella, CNR-ISMAC, Italy</td>
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<td>12:30-13:00</td>
<td><strong>Title: The preparation and characterization of polyacrylonitrile fiber-g-poyl (hydroxyethyl methacrylate) copolymer by graft copolymerization technique</strong></td>
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<td>Meral Karakisla Sahin, Ankara University, Turkey</td>
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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 Si$_3$N$_4$ 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
Tuesday 16th October 2018

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

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

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

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

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

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

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

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 Baser, National Research Centre, Egypt

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

Panel Discussion
Title: Compatibilization of polypropylene and recycled polyethylene terephthalate blends with methacrylate glycidyl based copolymers
Amenio C Serra, University of Coimbra, Portugal

Title: Synthesis of new-type Ag meso-particles for ultrasensitive SERS activity
Hengwei Qiu, Xi’an Jiaotong University, China

Title: Optimize the performance of graphene-based resistive random access memory device with the effective decoration of MoS$_2$
Minghui Cao, Xi’an Jiaotong University, China

Title: The effect of hydrolyzed cellulose pulp as a filler for LPDE
Jorge F J Coelho, University of Coimbra, Portugal

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

Title: Regenerated cellulose fibers spun from 1-ethyl-3-methylimidazolium diethyl phosphate/dimethyl sulfoxide co-solvent systems
Jiaping Zhang, Shinshu University, Japan

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

Title: Microstructural development in nanoferrites
Antonio Barba Juan, Jaume I University, Spain

Title: Evaluation of mechanical properties of carbon fiber considering size effect
Jae-Moon Im, Hanbat National University, South Korea