

**Ziggurat International Conference on Materials Science and Engineering (ZICMSE 2020)**  
**London – United Kingdom**  
**Conference Programme**

**Day 1 (5th October 2020)**

<b>Welcome by Conference Chair</b>	
09:00 – 09:15	 <b>Prof Adel Sharif</b> <b>University of Surrey, Faculty of Engineering and Physical Sciences, United Kingdom</b> (ZOOM ID: 949 5745 0148 Password: 863472)
<b>Keynote Speaker</b>	
09:15 – 09:45	 <b>Prof Olga E. Glukhova</b> <b>Chair of Radiotechnology and Electrodynamics, Saratov State University, Russia</b> (ZOOM ID: 949 5745 0148 Password: 863472)
09:45 – 10:00	Break
<b>Session 1 (10:00 – 11:00)</b> (ZOOM ID: 971 2651 7937 Password: 445174) 10 minutes presentation + 5 minutes for Q&A	
10:00 – 10:15	Modelling low velocity impact on structural composites
10:15 – 10:30	Study the effect of addition Nanoparticle (SiO <sub>2</sub> ) on Mechanical and Physical Properties of Rubber Composite
10:30 – 10:45	Assessment of some mechanical properties of PMMA/silica/zirconia nanocomposite as a denture base material
10:45 – 11:00	Manufacturing of high load Engine Mounts From the rubber composites (Natural rubber and Carbon Black) with novel properties
11:00 – 11:30	Break
<b>Session 2 (11:30 – 12:30)</b> (ZOOM ID: 928 7850 9511 Password: 569262) 10 minutes presentation + 5 minutes for Q&A	
11:30 – 11:45	Optical and morphology properties of the Magnetite (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles prepared by Green method
11:45 – 12:00	Characterization of Fe doped layered cathode material as Nano- rechargeable batteries Application
12:00 – 12:15	High Uniformity Distribution of Fe@Au Preparation by micro-emulsion method
12:15 – 12:30	Pomegranate Peel Plant Extract as Potential Corrosion Inhibitor for Mild Carbon Steel in 1 M HCl Solution
12:30 – 14:00	Break

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<b>Session 3 (14:00 – 15:15)</b>	
<b>(ZOOM ID: 929 7190 9803 Password: 465051)</b>	
<b>10 minutes presentation + 5 minutes for Q&amp;A</b>	
14:00 – 14:15	Deep Learning-based Phase Prediction of High-Entropy Alloys
14:15 – 14:30	Effects of New Modification and Refinement Technique of Mechanical Properties and Corrosion Behavior of Al-Si Alloys
14:30 – 14:45	EFFECT OF BORON ADDITION ON THE MICROSTRUCTURE AND CORROSION RESISTANCE OF Cu-Al-Ni SHAPE-MEMORY ALLOY PREPARED BY POWDER TECHNOLOGY
14:45 – 15:00	Influence of Alloying Elements on Behaviour of Cu-Based Alloy Used in Ships Industries
15:00 – 15:15	Effect of Ta, Zr and in additions on corrosion behaviour of CuAlMn alloy prepared via powder metallurgy
15:15 – 15:30	Break
<b>Session 4 (15:30 – 16:45)</b>	
<b>(ZOOM ID: 990 1546 2658 Password: 372694)</b>	
<b>10 minutes presentation + 5 minutes for Q&amp;A</b>	
15:30 – 15:45	Adsorption Isotherms and Kinetics for The Removal Aartichoke Tournafortii Straw from Agricultural Waste.
15:45 – 16:00	Optimizing the chemical demulsification of water-in-crude oil emulsion by using Taguchi method.
16:00 – 16:15	Influence of gas flow rate on plasma parameters produced by plasma jet and its spectroscopic diagnosis using OES technique.
16:15 – 16:30	Synthesis and Hemozoin Inhibitor of Side Chain Modified Copper- Chloroquine Derivative.
16:30 – 16:45	Structural and Magnetic Characterizations of Pb-Doped MgO Nanoparticles by Modified Pechini Method
16:45 – 17:00	Characterization of Copper-Chrome-Graphene Oxide Electrical Contact Materials Using Powder Metallurgy Technique
<b>Closing Remarks</b>	
17:00 – 17:10	Closing Remarks of Day 1 (ZOOM ID: 990 1546 2658 Password: 372694)

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**Day 2 (6th October 2020)**

Session 1 (9:00 – 10:00)	
(ZOOM ID: 947 7020 1656 Password: 609485)	
10 minutes presentation + 5 minutes for Q&A	
09:00 – 09:15	Cement concrete modular pavement implementation for pedestrian and bicycle path
09:15 – 09:30	Preparation of a Sustainable Thermal Insulation from Waste Materials
09:30 – 09:45	Measurement of radioactivity for Alpha in some types of ceramic and cement in the Iraqi market
09:45 – 10:00	Theoretical Model to Investigate Heat Transfer Mechanism through Heat Pipe
10:00 – 11:00	Break
Keynote Speaker	
11:00 – 11:30	 <p><b>Prof Kenneth Dalgarno</b>  <b>Lead investigator for the EPSRC Centre for Doctoral Training in Additive Manufacture and 3D Printing, Newcastle University, UK</b>                      (ZOOM ID: 965 4481 4608 Password: 129091)</p>
Session 2 (11:30 – 12:30)	
(ZOOM ID: 989 4537 7615 Password: 110258)	
10 minutes presentation + 5 minutes for Q&A	
11:30 – 11:45	Oxidation of biocompatible graphite - Ti composite after laser ablation in different atmospheres
11:45 – 12:00	The effect of additive silver (at. % Ag) on the mechanical properties of nitinol alloy.
12:00 – 12:15	The effect of adding Graphene nanoparticle on the thermal performance of LiCo <sub>0.525</sub> Ni <sub>0.475</sub> O <sub>2</sub> cathode materials for Li-ion batteries.
12:15 – 12:30	RHEOLOGICAL AND MECHANICAL INVESTIGATION OF PET, LDPE, AND HDPE WASTES BLENDS TOWARDS USING IN BIO-PIPES.
12:30 – 12:45	Preparation and Evaluation of CuO Nanoparticles by Sol-Gel Method
12:45 – 13:00	Break



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<b>Keynote Speaker</b>		
13:00 – 13:45		<b>Prof Joydeep Dutta</b> <b>Chair of Functional Materials, KTH Royal Institute of Technology, Stockholm, Sweden</b> (ZOOM ID: 948 4295 2421 Password: 901010)
13:45 – 14:00		Break
<b>Session 3 (14:00 – 15:00)</b> (ZOOM ID: 946 1852 2106 Password: 308118) 10 minutes presentation + 5 minutes for Q&A		
14:00 – 14:15		Kevlar based Composite Materials and its Applications in Body Armors: A Short Review
14:15 – 14:30		Synthesis and study the electrical properties of Composites (Fe Al <sub>2</sub> O <sub>3</sub> ) with paraffin wax and determination the mechanism of electrical conductivity
14:30 – 14:45		Effects of Consolidation Technique on the Properties of Al-Mg Alloy Matrix Composite Reinforced with Ni and SiCp
14:45 – 15:00		Thermophysical properties of [EMIM][BF <sub>4</sub> ] and [HMIM][PF <sub>6</sub> ] imidazolium ionic liquids with MWCNTs
15:00 – 15:30		Break
<b>Session 4 (15:30 – 17:00)</b> (ZOOM ID: 933 8010 9258 Password: 588741) 10 minutes presentation + 5 minutes for Q&A		
15:30 – 15:45		Evaluation of mechanical properties of composite laminates by fractal dimension.
15:45 – 16:00		Mechanochemical Preparation, Properties and Kinetic Study of Kaolin-N, P Fertilizers for Agricultural Applications
16:00 – 16:15		Study the Rheological Properties of LDPE Nano Composite Using Capillary Rheometer: Experimental and Numerical Study
16:15 – 16:30		Modelling low velocity impact on structural composites
<b>Closing Remarks</b>		
16:30 – 17:00		Announcing the best three papers in the conference & Closing Remarks (ZOOM ID: 933 8010 9258 Password: 588741)

