

2nd Global Conference on

Materials Science & Engineering

MAY 30-31 DUBAI UAE

SCIENTIFIC AGENDA

MAY 30-31, 2024

Name	Affiliation	Title		
	Introduction & Open Ceremony			
	Speaker Presentations			
Seongwoo Woo	Ethiopian Technical University, Ethiopia	Improving the Fatigue Design of Mechanical Systems such as Refrigerator		
Z Kovziridze	Georgian Technical University Georgia	FAILURE STRESS ENERGY FORMULA		
Raul B. Rebak	GE Vernova Research USA	Using Advanced Fuel Materials to Retrofit Current Light Water Reactors		
Raman Singh	Monash University, Australia	Innovative Surface Modification for Enabling CVD Graphene Coating on Steels for Remarkable Corrosion Resistance		
K. U. Neumann	SRH University of Applied Sciences, Germany	Martensitic Domain Formation in the Ferromagnetic Shape Memory Material Ni2MnGa		
Osman Adiguzel	Firat University, Turkey	Shape Reversibility and Fundamental Characterization of Shape Memory Alloys		
David Sheehan	Khalifa University, Ubu Dhabi, UAE	Nanoparticles as novel nucleation agents in protein crystallization: Success with a panel of unrelated proteins		
Refreshment and Coffee Break				
Speaker Presentations Continues				
Carlos Guerrero-Fajardo	Universidad Nacional de Colombia	sdComparison of performance in obtaining graphene oxide in three particle sizes using the Liquid Phase Exfoliation (LPE) method with high-rank Colombian coal		

Pitamber Mahanandia	National Institute of Technology, Rourkela, Odisha, INDIA	Investigation of mobility of graphene based field-effect transistor using ferroelectric gate
UTHAYAKUMAR G S	St.Joseph's Institute of Technology,Chennai, India	Artificial intelligence, IoT, and growing semiconductor technologies
Lev Rapoport	Holon Institute of Technology, Israel	The effect of the microstructure on the Friction and Wear Properties of Some FCC Metals under Lubricated Conditions
Carolina Fonseca de Farias	Federal University of Juiz de Fora, Brazil	The high-performance mortar with incorporation of marble waste and different additives
Urvashi Gunputh	University of Derby, United Kingdom	Laser-based material Science behind Powder Based Additive Manufacturing for Aerospace and Healthcare Industry
Rodolfo Gabriel Figueroa Saavea	Universidad de La Frontera, Chile	A New Tool for Cancer Theragnosis
Karima BELAKROUM	University of El Oued, Algeria	Structural and magnetic properties evolution of Cu2xCr2xZr2-2xSe4 for 0.500≤ x≤ 0.650
Hansang Cho	Sungkyunkwan University, Republic of Korea	Astrocytic Scar Restricting Glioblastoma Spreading in Glioblastoma-Microglia Assembloid
Khaled Shawakfeh	Jordan University of Science and Technology, Jordan	Encapsulation of Digitonin-Graphene Oxide, Digitonin-Graphene-Iron Oxide Composite into Cyclodextrins
Ilham El-Monier	Cairo University, Egypt	Doxorubicin and RITA loaded pH-responsive Dextran nanoparticles exhibiting inhibitory effects in synergism against cancer cells
Pier Paolo Pompa	Istituto Italiano di Tecnologia, Genova, Italy	Point-of-care colorimetric nanobiosensors: health, safety, food, environment
Bhawana jain	Siddhachalam Laboratory, Raipur (C.G.) INDIA	Antibacterial and photocatalytic degradation via ZnO-\(\mathbb{U}\)-cyclodextrin nanocomposite

Refreshment and Coffee Break		
Umesh Yadava	Deen Dayal Upadhyaya Gorakhpur University, India	Solute Binding Proteins as Smart Biomolecules: Structural and Functional Characterizations
Abdelhak Maghchiche	University Batna 2, Algeria	Nano composite hydrogels for biomedical applications from palm date seeds
Khatib Zada Farhan	King Abdulaziz University, Saudi Arabia	Influence of steel, polypropylene and glass fiber reinforcement on the high temperature resistance of alkali activated composites
Haroldo A Ponte	Federal University of Paraná, Brazil	Surface application of yttrium oxide nanoparticles as a protective method against high temperature oxidation to increase material's lifespan
V A Krylov	Institute of the Chemistry of High Purity Substances of the Russian Academy of Sciences, Russia	Gas chromatographic and gas chromatographic-mass spectrometric analysis of high purity volatile compounds for electronics and fiber optics
George Venedictovich Filatov	Ukrainian State University of Chemical Technology, Ukraine	Ukrainian State University of Chemical Technology, Ukraine
Ang-yang Yu	Harbin Engineering University, China	Numerical simulation of seismic wave field in the two-phase viscoelastic EDA media
Eugenia Pechkova	University of Genova, Italy	Protein Langmuir-Blodgett (LB) nanofilms: characterization and applications
Santanu Ghosh	IIT DELHI, New Delhi-110016, India	Metal-insulator nanocomposite films for Field emission, Magnetic storage and LSPR for electronics and fiber optics
Thomas J Webster	Interstellar Therapeutics, USA	Recent advancements and locks on the development and use of heat storage materials for high temperature applications.
Refreshment and Coffee Break		

Prof. Brij Bhushan Tewari	University of Guyana, Guyana	An Alternate Productive Solution To The Disposal Of Carbon Dust Obtained From Industries
Priya V	Visvesvaraya Institute of Technology, India	An Alternate Productive Solution To The Disposal Of Carbon Dust Obtained From Industries
Vladimir G Plekhanov	Fonoriton Science Lab. Estonia	Isotope-based New Materials
Dr Nuzhat Ahsan	Quant Lase Lab LLC, Abu Dhabi, UAE	Advancements in QCM-Based Biosensors: Integrating Biomaterials and Polymeric Coatings for Enhanced Disease Biomarker Detection
Dr Reshmi Raj	Quant Lase Lab LLC, Abu Dhabi, UAE	Bridging Strength and Sensitivity: Biomaterial Innovation in Abdominal Hernia Repair with Extracellular Matrix Hydrogel Coated Polypropylene Mesh
MIKHAIL BELKIN	Russian Technological University, Moscow	Jamming unauthorized radio channels with ultrafast response time
	Refreshment and	d Coffee Break
Eugene Stephane Mananga	The City University of New York, USA	NWChemEx Science Challenge Calculations to Investigate the dehydration of 2- propanol reaction
Harrison Corrêa	Universidade Federal do Paraná, Brazil	Nanopolymers - the new frontier for material development
Jun ZOU	The Chinese University of Hong Kong, Hong Kong	Direct sampling methods for nonlinear ill-posed inverse problems
WENBO PENG	Xi'an Jiaotong University, China	Piezo-Phototronic Effect in Multi-Layer Structured Optoelectronic: Bilateral Piezoelectric Charge Modulation
Emmanuel Ifeanyi Ugwu	Nigerian Army University	Synthesis and the study of optical and solid state properties of nickel sulphide doped with aluminum

Nina Ivanova	Insitute of Dermatology and Venereology of Academy of National Medical Science of Ukraine, Ukraine	The Treatment Alzheimer's Disease by the Lipochrom
Stoyan Sarg Sargoytchev	Institute of Space, Matter, and Energy Fields, Bulgaria	Atlas of Atomic Nuclear Structures - a major contribution of the BSM - Supergravitation Unified Theory
Omolola Esther Fayemi	West University, Mafikeng, South Africa	Electrochemical detection of dopamine using green and chemical synthesized CuO/PANI nanocomposite-modified electrode
Benrezkallah Djamila	Djillali Liabes University, Algeria	Molecular dynamics simulations of unfolding of a thermostable protein: Aeropyrum pernix L7Ae
Refreshment and Coffee Break		
Roman Perez	Universitat Internacional de Catalunya, Spain	fabrication of functional blood vessels in vitro for tissue replacement and drug screening
Mami Iwasaki	University of Toyama, Japan	Metal Complexes in Biology and Medicine: The System Cadmium(II) / Iron(II) / Zinc(II) – α- Aminobutenoic Acid
Sharafat Ali	Linnaeus University, Sweden	The Role of Glass Materials in a Sustainable Energy Future
Kenji Uchino	The Penn State Univ., University Park, PA 16802, USA	Misconceptions in Piezoelectric Energy Harvesting System Development
Fakhraddin Pasha Abasov	Azerbaijan State Marine Academy, Azerbaijan	Effect of gamma radiation on the amount of hydrogen in thin films on silicon for solar cells
Gregory M. Odegard	Michigan Technological University, USA	Process Modelling of Composites using a Multiscale Framework
Ranjit Ray	Saint Louis University, Missouri	Hepatitis C Virus Vaccine Candidate Using mRNA-LNP Platform
Refreshment and Coffee Break		

R. Sivarethinamohan	Imperial College London	Graphene industrial application towards decarbonization
Shaolin Hu	Guangdong University of Petrochemical Technology, China	Outlier-tolerant Learning for Statistical Features from Sampled Signals
Philippe Legros	University of Bordeaux, France	CaCO3 from Oyster Shell for Potential Application in Bone Tissue Engineering
Fouzia Achchaq	University of Bordeaux, France	Carbon nanotubes implementation in lead acid batteries industrial production
Siarhei Zhdanok	ART MONBAT, Bulgaria	Dynamic SEM study and analysis of the paraffin RT60 phase change transitions
Slots Available		

