

7TH EDITION OF INTERNATIONAL CONFERENCE ON **MATERIALS SCIENCE AND ENGINEERING**

*Engineering Excellence: Novel Innovations in
Material Science and Engineering*

Our OCMs



EPHRAIM SUHIR
Portland State University,
United States



RICHARD J SPONTAK
North Carolina State University,
United States



THOMAS J WEBSTER
Interstellar Therapeutics,
United States



GEORGE S DULIKRAVICH
Florida International University,
United States



ROBERT BUENKER
University of Wuppertal,
Germany



WILL SKENE
Montreal university,
Canada



TATIANA E ITINA
French National Centre for
Scientific Research, France

Scientific TOPICS

- Ceramics, Engineering Materials and Composite Materials
- Mechanics, Characterization Techniques and Equipments
- Batteries & Solid Electrolyte Materials
- Environmental and Green Materials
- Computational Materials Science
- Materials Science and Engineering
- Nanomaterials and Nanotechnology
- Failure Analysis and Prevention Techniques
- Plastics and Elastomers
- Coating and Surface Engineering
- Magnetism and Multiferroism
- Structural Materials and Metallurgy
- Biosensors and Bio Electronic Materials
- Optical, Electronic, Magnetic Materials and Plasmonics
- Emerging Smart Materials
- Biomaterials and Medical Devices
- Applications of Metallurgy, Minerals and Materials Science in other fields

 **28-30**
OCT 2024



Baltimore, MD, USA | Hybrid Event



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TENTATIVE PROGRAM

Keynote Presentations

Thomas J Webster Interstellar Therapeutics, United States	Title : Introducing picotechnology: An exciting extension of nanotechnology
Ephraim Suhir Portland State University, United States	Title: Failure oriented accelerated testing in electronics and photonics materials engineering: Types, roles, attributes, modeling
Robert Buenker University of Wuppertal, Germany	Title : The failure of both einsteins space-time theory and his equivalence principle and their resolution by the uniform scaling Method
Will Skene Montreal university, Canada	Title: Color control of electrochromes by structural modification

Oral Presentations

Muhammad Ullah Florida Polytechnic University, United States	Title: Carbon Nanotubes (CNTs) Chirality on Semiconductor Device Modeling
Yousif Alqenai Drexel University, United States	Title: A practical approach to manufacturing sintered lightweight aggregates (LWA) from unrecycled coal combustion ash (CCA)
Aleksey Vasiliev East Tennessee State University, United States	Title: Mesoporous functionalized hybrid organic-inorganic materials for adsorption of nitrates
Tsegaye Gashaw Getnet Bahir Dar University, United States	Title: Biofunctional coating of stainless steel surfaces with carvacrol- and eugenol-derived film using dielectric barrier discharge plasma: Aiming for suppression of biofilm formation and corrosion protection
Martin Krus Fraunhofer Institute for Building Physics (IBP), Germany	Title: Sustainable building material made from bulrush with numerous unique selling points
Muhammad Awais Altaf E308 Institute of Materials Science and Technology, Austria	Title: Influence of Si on crystal structures, mechanical properties, and thermal stability of high-entropy carbide system (HfC, TaC, TiC, VC, ZrC)/(Hf, Ta, Ti, V, Zr)C
John Prakash Susainathan University of Carlos III of Madrid, Spain	Title: Experimental investigation of impact behavior of composite eco-structure
Gabriel Beltran Aragon Institute of Technology, Spain	Title: Development of a digital engineering tool for estimating the impact of micro-defects on the mechanical response of 3D-printed filaments
Md Arif Ul Islam Nagoya Institute of Technology, Japan	Title: A deep dive into p-i-n rudorffite solar cell architectures for optimizing solar energy conversion

TENTATIVE PROGRAM

Michael I Tribelsky Lomonosov Moscow State University, Russia	Title: Tailoring subwavelength scale electromagnetic field patterns with the help of nanoparticles
Alexander S Gournik Institute of Automation and Control Processes, Russian Federation	Title: Make experiments more efficient: Two simple and powerful approaches. Mg ₂ Si growth for photovoltaic and thermoelectric applications
Nasimuddin Institute for Infocomm Research, Singapore	Title: Reconfigurable antenna structures using tunable materials
Eleazar Salinas Rodriguez Autonomous University of the State of Hidalgo, Mexico	Title: Synthetic and industrial jarosites and their application in tissue engineering
Vladimir Fonoriton Sci. Lab, Garon Ltd, Estonia	Title: Prospects of isotopic materials science
Osman Adiguzel Firat University, Turkey	Title: Shape memory effect and diffusionless phase transformation in shape memory alloys
I Engin Ture Anadolu Plasma Technology Center, Turkey	Title: Examination of the p-T phase diagram of pure substances
Beycan Ibrahimoglu Anadolu Plasma Technology Center , Turkey	Title: Examination of the p-T phase diagram of pure substances
Alebel Nibret Hunan University, China	Title: Synthesis, single crystal X-ray structure, spectroscopy and substitution behavior of niobium(V) complexes activated by chloranilate as bidentate ligand
Jifen Wang Shanghai Polytechnic University, China	Title: Preparation and application of organic phase change materials
Lixiong Shao Shanghai Jiao Tong University, China	Title: Enhanced grain refinement, precipitates regulation, and improved mechanical properties of cast Al-Li alloy by Ti addition and heat treatment
Yang Hongtao Huaqiao University, China	Title: How Innovation consortia promote Iterative Innovation in new energy vehicle enterprises? --An empirical study based on knowledge management perspective
Haiping Xu Shanghai Polytechnic University, China	Title: Significant enhancement of energy storage in gradient-structured composites
Adnan Ali Jeju National University, Korea, Republic of	Title : Electrochemical analysis comparison of nitrogen undoped and doped Ti ₃ C ₂ T _x /Co ₃ O ₄ hybrid composites on carbon cloth for application as electrode in supercapacitor
Sang Hyun Lim Chosun University, Korea, Republic of	Title: A study on the polymer solidification for disposal of powdered radioactive wastes

TENTATIVE PROGRAM

Sara Srebrenkoksa Goce Delcev University, North Macedona	Title: Procedure for making flat thermoplastic composite laminates by automated fiber placement and their mechanical properties
Kamalesh Kumar Singh Indian Institute of Technology BHU Varanasi, India	Title : Hydrometallurgical recovery of copper and gold from waste Printed circuit boards
D. R. Patil North Maharashtra University, India	Title: (0, 1 and 2) Dimensional hybrid architecture of the synthesized materials leads the smart sensing of the gaseous species at low / room temperature
Sujit Kumar Bandyopdhyay Meghnad Saha Institute of Technology, India	Title: Studies on multifunctional nanostructured materials
Sasmita Chand Manipal Academy of Higher Education Manipal, India	Title: Effective strategies for sustainable waste handling in the textile and apparel sector: A comprehensive review
Ravi Kikar Sinha Unaffiliated Indian Researcher, India	Title: Decentralisation of power through use of portable nuclear machines without excretion
Essekri Abdelilah IBN Zohr University, Morocco	Title: Efficient adsorption of crystal violet dye using functionalized argan shell: Experiments and statistical optimization modeling
Mohamed Jaouad Malzi Cad Ayyad University, Morocco	Title: Household natural gas demand: empirical evidence of non-linearity
Shavkat Institute of Nuclear Physics, Uzbekistan	Title : Structure-phase transformations in LiF crystals initiated by nuclear reactions
Gulmira Keldiyarova Samarkand state university, Uzbekistan	Title : Environmental condition of industrial enterprises, design of water supply systems and recovery of solid waste
Kassa Endalamaw Ewnu Ming Chi University of Technology, Taiwan	Title :Sensing mechanism elucidation and performance optimization of perovskite-based gas sensors for ammonia gas detection
Imen Ksouri University of Sfax, Tunisia	Title: The impact of short and long term ageing in glycol water mixture on mechanical behavior of polyamide 6/glass fibers materials and recovery of properties after desorption process
Solomon Kerealme Yeshanew Dire Dawa University Institute of Technology, Ethiopia	Title : Preliminary study on the microstructure evolution and deformation behavior of Ti6Al4V-5Cu alloy at low forming temperatures
Babaghayou Meriam Imane Higher Normal School of Laghouat, Algeria	Title : Exploring heterogeneity: Microstructural and mechanical evolution of monolayer LDPE greenhouse films under natural ageing
Zakia Hammou University of Science and Technology of Oran, Algeria	Title : Effect of curvature on the dynamic behavior of carbon nanotube reinforced FGM shells

TENTATIVE PROGRAM

Muhammad Yaqub

University of Engineering & Technology
Taxila, Pakistan

Title : Repairing and strengthening of concrete structures
damaged by extreme loading

Oral presentation slots are available !!

Poster presentations

Mina Lim

Gordon College, United States

Title: Exploring the influence of metal vacancies on the structural, mechanical, and thermal characteristics of high entropy carbides (HECs) using computational modeling

Solomon Ubani

Science Digest, United Kingdom

Title : Ecosystem development for semidetach and detach urban dwelling systems

Anjana Aravind

Dresden University of Technology,
Germany

Title : Chitin Membranes and 2D Material Integration: A NMR Study approach

Tsisana Gavasheli

Ivane Javakhishvili Tbilisi state University,
Georgia

Title : Comparative study of the domain wall pinning in cobalt micropowders and nanowires by the two nuclear magnetic resonance methods

Abdelhak Aouadi

University of Bouira, Algeria

Title : Fiber reinforced polymer as an external reinforcement for reinforced concrete beams - An experimental investigation

Poster presentation slots are available