



MARCH 2022

2nd Edition of

INTERNATIONAL CONFERENCE ON

MATERIALS SCIENCE AND ENGINEERING



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DAY OT MONDAY, MARCH 28

Moderator - Jennifer Gubitosa, University of Bari "Aldo MOro", Italy

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30	- 10:00	AV Check
10:00	- 10:10	Introduction
10.10.10.50	10:10-10:50	Bala Vaidhyanathan, Loughborough University, United Kingdom
10:10-10:50		Title: Additive manufacturing of advanced ceramics: The art of the possible
		Jean Ebothe, Université de Reims Champagne Ardenne, France
10:50-11:30	11:50-12:30	Title: Geometrical impact on magnetic properties of mesoscopic scale thick nickel thin films

ORAL PRESENTATIONS

11:30-11:50	19:30-19:50	Li Hui, Northeastern University, China Title: Vibration and damping study of multifunctional grille composite sandwich plates with an IMAS design approach
11:50-12:10	19:50 - 20:10	Jake Airey, Rolls-Royce, Singapore Title: The tribological performance of gas turbine lubricants
12:10 - 12:30	19:10 - 19:30	Siwat Linjee, Chiangmai University, Thailand Title: Development of ultrafine-grained Al-Zn-In alloy for high-performance Al-air battery anode
12:30 - 12:50	13:30 - 13:50	Thorsten Pretsch, Fraunhofer IAP, Germany Title: Recognizing the potential of 4d printing
12:50 - 13:20	14:50-15:20	Leelakrishna, University of Johannesburg, South Africa Title: Recent development in NaCa(AG):Sm ³⁺ (where AG = BO ₃ ⁻³ , PO ₄ ⁻³ and SO ₄ ⁻²) nanophosphors-applications for solid state lightning

KEYNOTE PRESENTATIONS

Ephraim Suhir, State University Portland, United States

13:20 - 14:00 06:20 - 07:00 Title: Burn-in testing (BIT) in electronics manufacturing: To BIT or Not to BIT, That's the question



ORAL PRESENTATIONS

14:00 - 14:20	19:30 - 19:50	Shivani Dhall, DAV College, India Title: Role of candle carbon soot as gas sensing material
14:20 - 14:40	19:50 - 20:10	Rupali Nagar, Symbiosis Institute of Technology, India Title: Sol-derived three-dimensional growth of tin oxide fractals
14:40 - 15:00	20:10 - 20:30	Shwetha Govinda Bhat, Indian Institute of Science, India Title: Oxide substrate termination and 2D growth of perovskite magnetic oxide ultra-thin films
15:00 - 15:20	20:30 - 20:50	Ramavatar Meena, CSIR-Central Salt and Marine Chemicals Research Institute, India Title: Seaweed polymer containing functional materials to protect environment
15:20 - 15:40	20:50 - 21:10	Soumendu Sinha, CSIR - Central Electronics Engineering Research Institute (CEERI), India Title: Development of sensing film materials using reactive sputtering process for FET-based pH Sensors
15:40 - 16:00	11:40 - 12:00	Bhaswati Choudhury, SurfPlasma, Inc, United States Title: Surface dielectric barrier discharge (DBD) plasma decontamination
16:00 - 16:20	09:00 - 09:20	Ephraim Suhir, State University Portland, United States Title: Probabilistic design for reliability of the electronic and photonic materials, devices, packages and systems

DAY 02 TUESDAY, MARCH 29

Moderator - Nandini Bhattacharya, The Energy and Resources institute, India

KEYNOTE PRESENTATION	15	5
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GMT Timings	Local Timings	
09:30	- 10:00	AV Check
		Kamran Nikbin, Imperial College, United Kingdom
10:00 - 10:40	10:00 - 10:40	Title: An integrated multiscale structural integrity approach to predicting damage and failure in advanced steels under fatigue/creep/oxidation
10:40 - 11:20	77. (0. 70.00	Zakaria Bomerzoug, University of Biskra, Algeria
	11:40 - 12:20	Title: Continuous casting of copper wire

POSTER PRESENTATIONS

		Foo Ngiap Yew Jared, Rolls-royce Singapore Pte Ltd, Singapore
11:20 - 11:30	19:20 - 19:30	Title: A case study of austenitic stainless steel air tube fracture from an aircraft gas turbine engine
		Changliang Yao, Korea Maritime and Ocean University, Republic of Korea
11:30 - 11:40	20:30 - 20:40	Title: Study on mechanical properties of copper alloy (CuNi2SiCr) layered on nickel aluminum bronze (NAB) by using direct energy deposition

ORAL PRESENTATIONS

11:40 - 12:00	19:40 - 20:00	Chi Ho Wong, The Hong Kong University of Science and Technology, Hong Kong Title: Enormous enhancement of p-orbital magnetism in the lightly doped carbon chains
12:00 - 12:20	17:30 - 17:50	Sanjib Bhattacharya, University of North Bengal, India Title: Journey from ion transport to polaron hopping: glassy electrolytes to chalcogenides
12:20 - 12:40	17:50 - 18:10	S S Lokesh Vendra, Indian Institute of Technology, India Title: Transition metal modified SiOC as a next generation dielectric material for energy storage applications
12:40 - 13:00	15:40 - 16:00	Seongwoo Woo, Ethiopian Technical University, Ethiopia Title: Improving the reliability design of mechanical systems such as refrigerator
13:00 - 13:20	16:00 - 16:20	Lydia Bondareva, Ehrisman's Federal Scientific Centre of Hygiene, Russian Federation Title: Nanomaterials in nuclear technologies and radioecology
13:20 - 13:40	16:20 - 16:40	Selcuk Poyraz, Adiyaman University, Turkey Title: A novel combined approach to simultaneous nanostructured conducting polymer carbonization and carbon nanotube/metal oxide nanowire growth



13:40 - 14:00	16:40 - 17:00	Osman Adiguzel, Firat University, Turkey Title: Shape reversibility and displacive transformations in shape memory alloys
14:00 - 14:20	15:00 - 15:20	EL Moudni EL Alami Souad, Université Mohamed ler, Morocco Title: Industrial by-products of granular character: Management issues and valorization approach in Civil Engineering
14:20 - 14:40	15:20 - 15:40	Chaimaa Diouri Ayad, Cedoc EHTP/ office chérifien des phosphates du Maroc, Morocco Title: Moroccan phosphogypsum valorisation in road application
14:40 - 15:00	15:40 - 16:00	Vito Rizzi, University of Bari "Aldo Moro", Italy Title: Agricultural wastes as environmentally friendly materials to remove pollutants from water
15:00 - 15:20	16:00 - 16:20	Jennifer Gubitosa, University of Bari "Aldo Moro", Italy Title: A food waste-based polyphenolic extract for synthesizing gold nanoparticles as powerful multifunctional platforms in cosmetics and biomedicine
15:20 - 15:40	11:20 - 11:40	Thomas Webster, Interstellar Therapeutics, United States Title: Commercializing university-based research: Self-assembled nanomaterials for fighting COVID-19, inhibiting infection, killing cancer, and regenerating tissues
15:40 - 16:00	09:40 - 10:00	Ricardo Acosta Ortiz, Centro de Investigación en Química Aplicada, Mexico Title: Synthesis and evaluation of the performance of a new curing agent for the photopolymerization of biobased epoxy resins
16:00 - 16:20	17:00 - 17:20	Mustapha Hidouri, Gabes University, Tunisia Title: Multiple ion-substituted hydroxyfluorapatites bioceramics

DAY 03 WEDNESDAY, MARCH 30

Moderator - Shwetha Govinda Bhat, Indian Institute of Science, India

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30 - 10:00		AV Check
		Vasily Lutsyk, Siberian Branch of the Russian Academy of Sciences, Russian Federation
10:00 - 10:40	17:00 - 17:40	Title: 3D computer models of isobaric phase diagrams for ternary systems to verify and validate thermodynamic calculation and experimental investigation: Ag-Bi(Sb)-Sn, Al(Bi)-Sn-Zn, Au-Ge-Sn

ORAL PRESENTATIONS

		ENTATIONS
10:40 - 11:00	18:40 - 19:20	Dhanesh G. Mohan, Shandong University, China Title: High entropy alloys for additive manufacturing
		Mizuki Mukai, Doshisha University, Japan
11:00 - 11:20	20:00 - 20:20	
		Sunanda Dhar, University of Calcutta, India
11:20 - 11:40	16:50 - 17:10	Title: Growth of dilute III-V-N and III-V-Bi semiconductors by liquid phase epitaxy
		Nandini Bhattacharya, The Energy and Resources institute, India
11:40 - 12:00	17:10 - 17:30	Title: Green synthesized graphene for delivery of plant growth regulators into plants
		Prasanta Chowdhury, National aerospace Laboratories, India
12:00 - 12:20	17:30 - 17:50	Title: Development of current sensors using giant magnetoresistance effect in magnetic multilayers
	17:50 - 18:10	Atteshamuddin S. Sayyad, Sanjivani College of Engineering Kopargaon, India
12:20 - 12:40		Title: Frequency analysis of functionally graded material circular beams
		Praveen Kumar Saxena, Tech Next Lab Pvt Ltd, India
12:40 - 13:00	18:10 - 18:30	Title: Material growth, characterization of group IV, III-V & II-VI semiconductors and its use for various device applications
		Arun Kumar Singh, Guru Ghasidas Vishwavidyalaya, India
13:00 - 13:20	18:30 - 18:50	Title: Impact of molecular ordering and alignment of conjugated polymer on charge transport
		Sanjay B. Patil, Shriman Sureshdada Jain College of Pharmacy, India
13:20 - 13:40	18:50 - 19:10	Title: Development and in vitro evaluation of chitosan microspheres of sertraline hydrochloride for nasal delivery



13:40 - 14:00	19:10 - 19:30	Swamini Chopra, Maharashtra Institute of Technology, India Title: Cryogenic treatment: evolution for polymeric materials
14:00 - 14:20	19:30 - 19:50	Minakshi Sharma, Maharshi Dayanand University, India Title: Fabrication of an electrochemical cytochrome c biosensor based on graphene oxide nanoparticles
14:20 -14:40	19:50 - 20:10	Chebrolu Pulla Rao, IIT Tirupati, India Title: Protein - Inorganic Sustainable Hybrid Nano-Materials in Water Purification
14:40 - 15:00	15:40 - 16:00	Alicja Tymoszuk, Bydgoszcz University of Technology and Science, Poland Title: Nanomaterials in improving micropropagation and breeding techniques of horticultural plants
15:00 - 15:20	15:00 - 15:20	Diogo M.F. Santos, CeFEMA, IST-ULisboa, Portugal Title: Towards effective green hydrogen production by enhancing oxygen electrode kinetics with transition metals (Ni, Fe, Cu) alloyed to platinum supported on graphene nanoplatelets
15:20 - 15:40	16:20- 16:40	Johan Debayle, MINES Saint-Etienne, France Title: Stochastic geometrical modeling of SOC electrode microstructures
15:40 - 16:00	10:40 - 11:00	Leonardo Prieto Abello, Instituto Distrital de Ciencia, Biotecnología e Innovación en Salud, Colombia Title: Evaluation of polycaprolactone and glycine electrospun biocomposite as scaffold for tissue construct skin
16:00 - 16:20	21:00 - 21:20	Najam Ul Hassan, University of Education, Pakistan Title: Tunable martensitic transformation and magnetic properties of Sm doped NiMnSn ferromagnetic shape memory alloys

THANKING NOTE AND CLOSING CEREMONY

UPCOMING CONFERENCES

3rd Edition of International Conference on Materials Science and Engineering
September 21-22, 2022 | Paris, France
https://materials.magnusconferences.com

4th Edition of International Conference on **Materials Science and Engineering** March 13-14, 2023 | Singapore https://magnusconferences.com/materials-science/

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