

Cera4S 2024 - Technical Schedule		
TIME	DAY-1 (November 28, 2024)	VENUE
	Technical Session 1 : ADVANCED CERAMICS FROM MOLECULAR PRECURSORS (CMP-1) Synthesis, Characterization and Properties of Precursor Derived Ceramics Session Chair: K. Muraleedharan	
15:00-15:30	Felicitation of Ralf Riedel for his contributions to the field of Precursor Derived Ceramics Ralf Riedel, Technical University of Darmstadt, Germany KL - Powder-Free Processing of Advanced Ceramics with Multifunctional Properties	TTJ Auditorium, IC&SR
15:30-15:50	Samuel Bernard, University of Limoges, France IL - A general concept toward the insitu encapsulation of metal sites in a microporous Si-C-O-N-based matrix to stimulate superior oxygen evolution reaction activity	
15:50-16:10	Günter Motz, University of Bayreuth, Germany IL - Aligned and multifibrillar carbon/ceramic hybrid fibers with improved oxidation resistance	
16:10-16:30	Emanuel Ionescu, Fraunhofer Research Institution for Materials Recycling and Resource Strategies IWKS, Germany IL - SiOC-Based Strain Gauge with Ultrahigh Piezoresistivity at High Temperatures	
	Technical Session 2: TRADITIONAL CERAMICS, REFRACTORIES, GLASSES: FUTURE TRENDS (CRG-1) Session Chair: Lalith Kumar Sharma	
15:00-15:20	Optimizing sintering kinetics of fine alumina for high-density, low shrinkage ceramic components in advanced engineering applications by HIRAK MITRA, Prabhu Ramanujam, Shekar Nath, Vikas Patil, Kiran T K, Subhashree Sethi, Suman kr Bal, Hindalco, India - IL	HALL-1, IC&SR
15:20-15:30	Effect of Additives and Sintered Corundum on Microstructure, Slag Corrosion Resistance, and Thermal Shock Resistance of High Chrome Oxide Refractory – A New Product for Coal Gasifier by Jyoti Prakash Nayak, TRL Krosaki Refractories Ltd, India- OP	
15:30-15:40	Manisha Vidyavathy, AC Tech, Anna University, India IL - Status of Ceramic Education in India: Challenges and Opportunities	
15:40-15:50	Comparative study on placement and thermo-mechanical properties between no-cement, low-cement, and ultra-low cement castable by Ankita Mishra, Arindam Mukherjee, Elkem South Asia Pvt Ltd, India - OP	
15:50-16:00	Development of suitable refractory for tuyere stock of blast furnace to facilitate increase in hot blast temperature by Indranil Roy, Manish Kr. Kujur, S. Aman, Amitava Paul, R.K. Pradhan, R.K. Singh, RDCIS, SAIL, Ranchi, & SRU, SAIL, Bokaro, India - OP	
16:00-16:10	Synthesis and characterization of Nano bonded silica refractory castable by Manish Kumar, Manas Ranjan Majhi, IIT BHU, Varanasi, India - OP	
16:10-16:20	Development of IR reflective Ceria Red Pigments for Thermal Insulation Coatings Applications by Md Rashin M.P, A.T. Hasna, Peer Mohamed A and S. Ananthakumar, CSIR-Thiruvananthapuram, India - OP	
16:20-16:30	Naveen Viswabaskaran, VB Ceramics Consultants, India IL - VBCC: Pioneering Advanced Solutions for the Ceramic Industry	
	Technical Session 3: CERAMICS FOR ENERGY & ENVIRONMENT (CEE-1) Photocatalysis, Electrocatalysis, Sensors and Actuators, Devices and Components Session Chair: C D Madhusoodana	
15:00-15:30	Dibakar Das, University of Hyderabad, India KL - Design and Characterizations of Novel Lead-free High Entropy Relaxor Ferroelectric Ceramics for High Temperature Energy Storage Applications	HALL-2, IC&SR
15:30-15:50	DLVK Prasad, Indian Institute of Technology Kanpur (IIT Kanpur), India IL - Data-mining for Novel Ceramic Materials: Insights and Analytics	
15:50-16:10	Shrabane Sen, Central Glass and Ceramic Research Institute (CGCRI), Kolkata, India IL - High Performance Hybrid Nanogenerator for Self Powered Multifunctional Sensor	
16:10-16:30	Santanu Das, Indian Institute of Technology, Banaras Hindu University (IIT BHU), India IL - Functional nano-archetypes: A new paradigm of water electrolysis and multianalyte sensing	
	Technical Session 4: ENERGY EFFICIENT PROCESSING TECHNIQUES (EPT-1) Materials, Defect Engineering & Science Session Chair: Branko Matović	
15:00-15:30	Rishi Raj, University of Colorado Boulder, USA KL - Opportunities for research and funding for fundamental investigations in far from equilibrium phase transformations in the application of flash to metals	HALL-3 (AMM), IC&SR
15:30-16:00	Dietrich E. Wolf, University of Duisburg-Essen, Germany KL - Towards a Theory for Flash-Sintering	
16:00-16:20	Devinder Yadav, Indian Institute of Technology Patna (IIT Patna), India IL - Flash sintering: A novel method for materials processing	
16:20-16:40	Mohammad Imteyaz Ahmad, Indian Institute of Technology, Banaras Hindu University (IIT BHU), India IL - Flash-Assisted Processing and Electrical Properties of (Mg, Co, Ni, Cu, Zn) O High Entropy Oxide	
	Technical Session 5 : MATERIALS FOR HEALTHCARE (MHC-1) Session Chair: Syed Ansar M Tofail	
15:00-15:30	Sampath Kumar T. S., Indian Institute of Technology Madras (IIT Madras), India KL - Eggshell Waste for Sustainable Bioceramics	Annexe Conference Hall (First Floor), IC&SR
15:30-15:50	Vamsi Krishna Balla, CSIR- Central Glass & Ceramic Research Institute (CGCRI), Kolkata, India IL - Biogenic Bioceramics: Outlook towards Sustainability	
15:50-16:10	Ivana Cvijović-Alagić, University of Belgrade, Serbia IL - Laser-oxidized surfaces for enhanced damage protection and bioactivation of modern metallic implants	
16:10-16:20	Defective Quantum Dot Composite-based Broad-Spectrum UV Blockers with in-situ O ₂ generating potency and biocompatibility by Sayoni Sarkar, Ajit. R. Kulkarni, IIT Bombay, India - OP	
16:20-16:30	TiN coated coronary stent: Lab to Animal studies, Subhash N. N., Muraleedharan C. V., SCTIMST, Trivandrum, India - OP	
16:20-16:40	Synthesis and Robocasting of Tri-calcium Phosphate, Hydroxyapatite and Wollastonite based Bioceramic Composite by Gowtham R and Manisha Vidyavathy S, Anna Univ., Chennai, India	
16:40-17:00	TEA BREAK & INAUGURATION of POSTER SESSION (Poster Session till 18:00 hours - Hall-4)	Annexe & Dining Halls, IC&SR
17:00-18:00	ANNUAL GENERAL BODY MEETING (InCerS, IIC, AIPMA)	TTJ Auditorium, IC&SR
18:30-19:30	CULTURAL PROGRAM- INSTRUMENTAL CARNATIC MUSIC	Central Lecture Theatre (CLT)
19:30-21:30	GALA DINNER	Terrace & Dining Halls, IC&SR