



National Seminar

on

Industrial Ceramics: Challenges, Opportunities and Sustainability (ICCOS)



Programme Schedule

Day 1: June 13, 2024

Time	Venue: Meghnad Saha Auditorium, CSIR-CGCRI, Kolkata
09:00 to 10:00 hrs	Registration
10:00 to 11:35 hrs	Inauguration Programme
10:00 to 10:05 hrs	Lightening of the ceremonial lamp with invocation
10:05 to 10:10 hrs	Presentation of flower bouquets to the dignitaries on the dias
10:10 to 10:20 hrs	Welcome Address by Dr Suman Kumari Mishra, Director, CSIR-CGCRI
10:20 to 10:25 hrs	Introduction of the theme of the conference by Dr H. S. Tripathi, Chief Scientist & Head, RTCD, CSIR-CGCRI and Chairman, ICCOS
10:25 to 10:30 hrs	Address by Dr Sankar Ghatak, President, Indian Institute of Ceramics
10:30 to 10:40 hrs	Address by Chief Guest, Shri Prasant Kumar Naik, MD, TRL Krosaki Refractories Ltd.
10:40 to 10:45 hrs	Release of Abstract Book by the Chief Guest
10:45 to 11:20 hrs	Keynote Lecture: Advanced Ceramics: Cutting edge applications, challenges and sustainability, Dr Suman Kumari Mishra, Director, CSIR-CGCRI
11:20 to 11:25 hrs	Felicitation of the Dignitaries on the dias
11:25 to 11:30 hrs	Vote of Thanks by Dr S. Sinhamahapatra, Principal Scientist, CSIR-CGCRI and Organizing Secretary, ICCOS
11:30 to 11:35 hrs	National Anthem
11:35 to 12:00 hrs	High Tea: Venue: K. D. Sharma Multipurpose Hall, CSIR-CGCRI
12:00 to 13:30 hrs	Technical Session I: Refractory Session Chair: Dr Arup Ghosh; Coordinator: Dr Venkatesh Pilli
12:00 to 12:25 hrs	IL-1: Recycling of spent refractories for a sustainable future <i>Dr Arup Samanta, TRL Krosaki Refractories Ltd.</i>
12:25 to 12:50 hrs	IL-2: A glance through refractory industry: challenges, opportunities & sustainability <i>Shri Chinmoy Basu, Calderys</i>
12:50 to 13:05 hrs	OL-1: A new approach to make no cement castable <i>Dr Goutam Bhattacharya, Imerys</i>
13:05 to 13:20 hrs	OL-2: Influence of different carbon types on mould flux properties for thin slab caster <i>Shri Rahul Kumar, Calderys</i>
13:20 to 13:35 hrs	OL-3: Study of low soda reactive alumina (IC06SG) in low cement castable formulations <i>Shri Sovan Khan, Hindalco</i>
13:35 to 14:30 hrs	LUNCH: Venue: K. D. Sharma Multipurpose Hall, CSIR-CGCRI
14:30 to 16:05 hrs	Technical Session II: Engineering Ceramics Session Chair: Dr Lokesh C Pathak; Coordinator: Dr Swati Jha
14:30 to 14:55 hrs	IL-3: Technical ceramics for industrial & advanced applications <i>Dr Santanu Mandal, CUMI</i>
14:55 to 15:20 hrs	IL-4: Ceramics for strategic applications – a snapshot <i>Dr M. R. Ajith, VSSC</i>
15:20 to 15:35 hrs	OL-4: Development of Polycrystalline AlN Ceramics for IR windows applications <i>Dr Yuvaraj Natarajan, CSIR-CGCRI</i>
15:35 to 15:50 hrs	OL-5: 3D microstructure characterization of 2D Cf-ZrB ₂ -SiC ultra-high temperature ceramic matrix composites using X-ray microscopy <i>Shri Adarsha Ranjan Mishra, DMRL</i>
15:50 to 16:05 hrs	OL-6: Effect of PyC coating on the mechanical properties of 3D C-fibre reinforced SiC ceramic matrix composite (CMC) prepared by liquid silicon infiltration <i>Shri Ravi Kumar, CSIR-CGCRI</i>
16:05 to 16:20 hrs	TEA: Venue: K. D. Sharma Multipurpose Hall, CSIR-CGCRI



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16:20 to 17:15hrs	Technical Session III: Traditional Ceramics Session Chair: Shri Swapan Guha; Coordinator: Ms Paromita Das
16:20 to 16:45 hrs	IL-5: Present-day challenges and opportunities for bone china crockery & tableware industry in India <i>Dr Parvesh Agrawal, CSIR-CGCRI, Naroda</i>
16:45 to 17:00 hrs	OL-7: Crafting Contemporary Elegance: unveiling design trends in the Indian tiles industry through Indian artistic traditions <i>Shri Tanmoy Nandi, Visva- Bharati,</i>
17:00 to 17:15 hrs	OL-8: Development of fast-fired glazed stoneware based ceramic products <i>Shri S. K. Sharma, CSIR-CGCRI, Khurja</i>
17.15 to 18.30 hrs	IIC Golden Jubilee Programme
19.30 to 22.00 hrs	DINNER Venue: Eastern Metropolitan Club A-73, Purba Diganta, Santoshpur, Kolkata, West Bengal 700075

Day 2: June 14, 2024

Time	Venue: Meghnad Saha Auditorium, CSIR-CGCRI, Kolkata
10:00 to 11:30 hrs	Technical Session IV: Refractory and Engineering Ceramics Session Chair: Dr H. S. Tripathi; Coordinator: Ms Soma Hansda
10:00 to 10:15 hrs	OL-9: Engineering of products with refractory arising from steel making furnaces for cost benefits and sustainability <i>Shri Ajay Dasgupta</i>
10:15 to 10:30 hrs	OL-10: Spinel containing high alumina castable for steel ladles: use of dispersing alumina replacing silica fume <i>Shri Satyam Kumar, NIT Rourkela</i>
10:30 to 10:45 hrs	OL-11: Development of backup refractory for ceramic melters for the vitrification of radioactive liquid waste <i>Shri R. Raja, IGCAR</i>
10:45 to 11:00 hrs	OL-12: Glass-ceramics: An efficient hot corrosion resistant material <i>Ms Karthiga Parthiban, CSIR-CGCRI</i>
11:00 to 11:15 hrs	OL-13: Scaleable processing of 2D-MXene and quantification of its surface termination <i>Ms Debjani Niyogi, CSIR-CGCRI</i>
11:15 to 11:30 hrs	OL-14: Halloysite nanotube - a nature's boon for energy and environmental application in pure and modified membrane forms <i>Ms Sarbasree Dutta, CSIR-CGCRI</i>
11:30 to 11:45 hrs	TEA: Venue: K. D. Sharma Multipurpose Hall, CSIR-CGCRI
11.45 to 13.00hrs	Technical Session V: Biomaterials Session Chair: Dr Goutam Banerjee; Coordinator: Dr Yuvaraj Natarajan
11:45 to 12:00 hrs	OL-15: Biodegradable magnesium phosphate ceramics in orthopedic application <i>Dr Kaushik Sarkar, IIT BHU</i>
12:00 to 12:15 hrs	OL-16: Silver (Ag) nanoparticles doped multifunctional silk fibroin-polycaprolactone (SF-PCL) nanofibrous composite scaffolds with enhanced biocompatibility and antibacterial properties for bone regeneration <i>Ms Debolina Saha, CSIR-CGCRI</i>
12:15 to 12:30hrs	OL-17: Green self-assembled hierarchical zinc phosphate and high temperature stable ceramic nanosystem: Use in antimicrobial infection, drug delivery and bone regeneration <i>Dr Pradip Paik, IIT BHU</i>
12:30 to 12:45 hrs	OL-18: Development of biowaste-sourced cost-effective herbal toothpaste with anti-cariogenic, remineralizing, and desensitizing properties <i>Ms Nabonita Chakraborty, CSIR-CGCRI</i>
12:45 to 13:00 hrs	OL-19: Synthesis of hydroxyapatite and phosphate-based bio-char from fish scales <i>Ms Srija Panda, CSIR-CGCRI</i>



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13:00 to 14:00 hrs	LUNCH Venue: K.D. Sharma Multipurpose Hall, CSIR-CGCRI
14:00 to 16:30 hrs	Technical Session VI: Energy & Environment Session Chair: Dr Barunbeb Mukherjee; Coordinator: Ms Paromita Das
14:00 to 14:15 hrs	OL-20: Permeability properties of layered hydrophilic ceramic membrane in different liquid medium <i>Shri Nilanjan Santra, CSIR-CGCRI</i>
14:15 to 14:30 hrs	OL-21: Synthesis of novel NdBaSrMnO _{6±δ} based double perovskite electrodes for solid oxide cell application by wet chemical method <i>Dr Barnasree Chanda, CSIR-CGCRI</i>
14:30 to 14:45 hrs	OL-22: Ceramic Membranes with positive surface charge for defluoridation of contaminated water for drinking purpose <i>Dr G C Sahoo, CSIR-CGCRI</i>
14:45 to 15:00 hrs	OL-23: Visible light driven photocatalytic reduction and oxidation of Cr (vi) and dye by polyoxometalate loaded reduced graphene oxide-silver vanadate nanocomposites <i>Shri Soumita Samajdar, CSIR-CGCRI</i>
15:00 to 15:15 hrs	OL-24: Combinatorial synthesis and high-throughput characterization of multinary vanadate thin film materials libraries for solar water splitting <i>Dr Swati Jha, CSIR-CGCRI</i>
15:15 to 15:30 hrs	OL-25: Performances & degradation phenomena for a Z _{0.75} C _{0.25} O ₂ composite for tuning the anode functionality with LSM and LSCF cathodes under SOFCs <i>Shri Rajasekar Saravanan, CSIR-CGCRI</i>
15:30 to 15:45 hrs	OL-26: Preparation of in situ organic nanoparticle incorporated ceramic supported polymeric composite nanofiltration membrane via interfacial polymerization for water treatment <i>Shri Krishanu Bhowmick, CSIR-CGCRI</i>
15:45 to 16:00 hrs	OL-27: Processing of 2D-Nanosheet Encapsulated Nanostructure for Solid-State Hydrogen Storage Application <i>Ms Pritha Sanbigrahi, CSIR-CGCRI</i>
16:00 to 16:15 hrs	OL-28: Effect of temperature on properties of Glass foam <i>Ms Keya Haldar, CSIR-CGCRI</i>
16:15 to 16:45 hrs	Session VII: Valedictory Session