



Department of Ceramic Engineering, IIT(BHU), Varanasi

In association with

The American Ceramic Society (Northeast India Chapter)

Organizes

5th GLOBAL CERAMIC LEADERSHIP ROUNDTABLE

On

Next-Generation Ceramics for a Sustainable Future (NGCSF 2026)

February 17–18, 2026



About NGCSF 2026

With the ever-increasing demand for next-generation ceramics offering superior performance for frontier applications across aerospace, thermo-structural systems, energy, manufacturing, biomedical, and nuclear sectors, strong collaboration among academia, R&D laboratories, and industries has become essential. Moreover, the challenges of sustainable development and the growing demands of green and energy-efficient technologies require innovative ceramic materials, manufacturing, characterization, and recycling technologies. Ceramics are poised to be enablers of a sustainable, low-carbon economy, but only if their value chains are redesigned for lower energy consumption, lower CO₂ emissions, and better circularity. These ceramic materials combine tailored functional and structural performance with explicit design for sustainability across raw materials, processing, use, and end-of-life goals.

In this context, the Department of Ceramic Engineering, IIT (BHU) Varanasi, in association with the Northeast India Chapter of the American Ceramic Society (ACerS), is delighted to organize the 5th Global Ceramic Leadership Roundtable on “*Next-Generation Ceramics for a Sustainable Future (NGCSF 2026)*.” This event aims to bring together experienced researchers, emerging scientists, and industry professionals to deliberate on the recent advances and emerging opportunities in the synthesis, processing, characterization, and performance of advanced and sustainable ceramics for next-generation applications.

About the Department

With a rich heritage spanning over a century, the Department of Ceramic Engineering plays a pivotal role in advancing academic standards, fostering innovation, and nurturing fruitful collaborations with industries across the country. Currently, the Department offers a comprehensive range of programs, including Bachelor of Technology, Integrated Dual Degree, Master of Technology, and Ph.D. programs, all specializing in Ceramic Engineering. Engaged in cutting-edge research, the Department actively explores emerging fields such as energy materials & devices, electrical & electronic ceramics, functional materials, glass & glass-ceramics, refractories & high-temperature ceramics, structural ceramics & composites, bio-ceramics, ceramic whitewares, and more, contributing significantly to advancing education, research and industrial development in ceramics.

Scope

- Next-Generation Functional and Sustainable Ceramics: From Design to Deployment
- Advancing the Frontiers of Ceramic Science
- Innovations in Advanced Ceramics
- Ceramics for Tomorrow
- Emerging Paradigms in Ceramic Science and Engineering
- Smart and Sustainable Ceramics

Themes

- Functional, Structural & Advanced Engineering Ceramics
- High-Entropy, Environment-Conscious & Self-Healing Ceramics
- Modelling, Simulation & Data-Driven / AI-Assisted Design
- Surface Coatings & Additive Manufacturing (3D Printing)
- Nuclear Systems & Radiation-Resistant Ceramics
- Energy Conversion & Storage Materials
- Next-Generation Bio-ceramics & Bio-inspired Materials
- Ultra-High Temperature Ceramics
- Glass, Refractories & Composites
- Waste-Derived & Sustainable Materials
- Nano-ceramics, Catalysis & Environmental Remediation
- Transparent, Optical, Quantum, Photonic & Electronic Applications
- Reliability, Life Prediction & Failure Analysis

Conference Schedule

- **Venue:** D&V 2D, IIT(BHU), Varanasi
- **Important Dates:**

Poster Submission deadline	30 th January 2026
----------------------------	-------------------------------

Organizing Committee

Patron:	Prof. Amit Patra, Director, IIT(BHU), Varanasi
Organizing Chair:	Dr. Ashutosh Kumar Dubey, Head, Dept. of Ceramic Engineering
Organizing Co-Chair:	Dr. L. K. Sharma, Northeast India Chapter AcerS
Organizing Secretary:	Dr. Pradip Kumar Roy
Organizing Co-Secretary:	Dr. Pavan Pujar
Organizing Co-Secretary:	Dr. Kaushik Sarkar
Treasurer:	Dr. Kundan Kumar
Team members:	Prof. Vinay Kumar Singh
	Prof. Manas Ranjan Majhi
	Dr. Preetam Singh
	Dr. Imteyaz Ahmad
	Dr. Santanu Das
	Dr. Subrata Panda
	Dr. R. K. Chaturvedi

Advisory Committee

International:

- Dr. Mrityunjay Singh (Past President –ACerS, Ohio Aerospace Institute, USA)
- Dr. Tatsuki Ohji (Past President –ACerS, Yokohama National University, Japan)
- Prof. Sanjay Mathur (Past President – ACerS, University of Cologne, Germany)
- Dr. Dileep Singh (Argonne National Laboratory, USA)
- Prof. Palani Balaya (NUS, Singapore)
- Prof. Surojit Gupta (University of North Dakota, USA)
- Prof. Ungyu Paik (Hanyang University, Korea)
- Prof. Makio Naito (Osaka University, Japan)
- Dr. Shibin Jiang (AdValue Photonics, USA)
- Dr. Hui-Suk Yun (KIMS, Korea)
- Dr. Chandresh Agrawal (Aloft Overseas Consultant, UAE)
- Dr G.M. Anil Kumar (Noritake Co. Ltd., Japan)
- Dr. R. S. Rai (Applied Novel Devices, TX)

National:

- Prof. Bikramjit Basu, CSIR-CGCRI, Kolkata
- Mr. H. L. Rai, MD, Zircar Refractories Ltd., Mehsana
- Mr. Rajesh Agarwal, Director, Clay Craft India Pvt. Ltd., Jaipur
- Mr. Neelwarnam, Amerys Special Refractory Pvt. Ltd., Wankaner
- Mr. T. K. Chakraborty, Plant Head, Saint Gobain Glass India Ltd., Bhiwadi
- Mr. Dishant Badlani, Director, Prayag Clay Products Ltd., Varanasi
- Dr. Jeetendra Sehgal, President, Borosil Renewables Limited, Pune
- Prof. Parag Bhargava, IIT, Mumbai
- Dr. Anupam Agnihotri, Director, JNARDDC, Nagpur
- Mr. Sabyasachi Roy, CEO & MD, Ceramat Pvt. Ltd., Mumbai
- Mr. S. K. Singhanian, MD, R. K. Potteries Pvt. Ltd., Khurja
- Mr. Sharad Chandra, Principal Consultant, Glass Biz Solutions, Vadodara
- Prof. Ravi Kumar N. V., IIT Madras
- Mr. Pawan K Shukla, MD, Schott Glass India Pvt. Ltd., Vadodara
- Mr. Mitrabhanu Pati, Business Director, Ceramics Asia Pacific, Imerys India, Hyderabad
- Dr. V. Thirumurugan, Director, Glorex Minerals India, Morbi
- Prof. B. V. Manoj Kumar, IIT Roorkee
- Mr. Pankaj C. Patil, MD, Innovative Surface Coating Technologies Pvt. Ltd., Nagpur
- Mrs. Rashmi Dharmadhikari, Director, Metwiz Materials Private Limited, Mumbai
- Mr. Muneesh Nagpal, Director, Accurate NDT Solutions, Bangalore
- Dr. Dhavanesan R, MD, Dhavaa Technical Ceramics Pvt. Ltd., Coimbatore
- Mr. Chandrasekhar Misra, Director, Thermwin Technologies Pvt. Ltd., Jarsuguda, Odisha
- Prof. Shobit Omar, IIT Kanpur
- Prof. L. M. Manocha, Sardar Patel University, Gujarat
- Prof. Prabhakar Singh, IIT (BHU), Varanasi
- Prof. R. Manna, IIT (BHU), Varanasi
- Dr. Mailadis Sebastian, Ex-retired chief scientist at CSIR NIIST
- Dr. Indra Bhushan Singh, Former Chief Scientist at CSIR-Advanced Materials and Processes Research Institute, Bhopal
- Prof. Dr. A. Shunmugalatha, Velammal College of Engineering and Technology (VCET)

Registration

Registration for student participants presenting posters is completely free. However, no financial support in the form of travel allowance (TA) or accommodation will be provided. Students are required to make their own arrangements for travel and stay. The last date of registration is 31st January 2026.

Accommodation and Transportation

The nearest airport is Lal Bahadur Shastri International Airport at Babatpur, 26 km from Varanasi. Direct flights for Varanasi are available from Ahmedabad, Jaipur, New Delhi, Chennai, Bengaluru, Hyderabad, Kolkata, Mumbai, Lucknow, Bhuvaneshwar, Khajuraho, Sharjah (Dubai) and Kathmandu (Nepal). Varanasi (Cantonment), Banaras (BLW), and Pandit Deen Dayal Upadhyay (Mughal Sarai) are the important rail junctions that link Varanasi with all major cities of India.

Sponsorship Opportunities

Reputed Industries, Organizations, Government bodies, and IIT (BHU) Alumni are invited to join this conference as sponsors. We also welcome direct sponsorship for conference lunch/dinner/registration kits. A conference souvenir will be published during the event.

- Gala Dinner Sponsorship (150–175 participants) Rs 2.5 Lakhs
- Registration Kit & Mementos Sponsorship (150 kits) Rs 2.5 Lakhs
- Ganga Aarti Darshan Sponsorship (4–5 cruise boats) Rs 1.0 Lakh
- Advertisement in Souvenir (Rs 5000 x 20 nos)
- Advertisement in Souvenir (Rs 15000 x 2 nos Front & Back Inner)
- Advertisement in Souvenir (Rs 20000 x 1 nos Back)

Payments accepted in the India Chapter Account in the State Bank of India, Khurja - 203131

Contact Persons

- Dr. Pradip Kumar Roy, +91 74089 86606, pkroy.cer@iit.bhu.ac.in, ngcsf2026.events@itbhu.ac.in
- Dr. A. K. Dubey, +91-8726823415, akdubey.cer@itbhu.ac.in
- Dr. L. K. Sharma, +91 98100 44600, lksharma6@rediffmail.com