

# Department of Ceramic Engineering, IIT(BHU), Varanasi

In association with

## The American Ceramic Society (Northeast India Chapter)

Organizes

### 5<sup>th</sup> 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 CO<sub>2</sub> 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 5<sup>th</sup> 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 <sup>th</sup> January 2026
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## Organizing Committee

Patron:

Prof. Amit Patra, Director, IIT(BHU), Varanasi

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Dr. Ashutosh Kumar Dubey, Head, Dept. of Ceramic Engineering

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- 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 31<sup>st</sup> 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

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