

**InCerS Student Chapter of IIT-BHU in association with the Department of Ceramic Engineering
IIT (BHU), Varanasi**

Celebrates

International Day of Ceramics (12th March 2026)

Organizes a half-day seminar on

“Emerging Roles of Ceramic Materials in Modern Technological Advancements”

Organizer: InCerS Student Chapter, IIT (BHU), Varanasi

Date: Thursday, 12 March 2026

Time: 11:00 AM – 1:00 PM

Venue: New Classroom, Department of Ceramic Engineering, IIT (BHU), Varanasi

1. Introduction

The Indian Ceramic Society (InCerS) Student Chapter of the Department of Ceramic Engineering, IIT (BHU), successfully organized a half-day seminar on “**Emerging Roles of Ceramic Materials in Modern Technological Advancements**” on March 12, 2026. The event aimed to bridge the gap between academic knowledge and industrial applications by bringing together eminent experts from academia and industry to discuss the latest breakthroughs in ceramic materials. The seminar witnessed an enthusiastic response from faculty members, research scholars, and undergraduate/postgraduate students.

2. Inaugural Session (11:00 AM – 11:15 AM)

The seminar commenced with a formal welcome address. The President of the InCerS Student Chapter set the tone for the event by outlining the objectives of the seminar and introducing the distinguished guests. This was followed by an address by Prof. Subrata Panda, Faculty Advisor of the student chapter, who emphasized the department's commitment to fostering a robust research culture and the growing importance of ceramics in cutting-edge technologies. Dr. Sitendu Mandal, Honorary Secretary of the Indian Ceramic Society, delivered the inaugural address, highlighting the Society's role in promoting ceramic science and congratulating the student chapter for organizing a relevant and timely seminar.

3. Technical Session (11:15 AM – 1:00 PM)

The technical session featured three invited talks by leading experts, covering a diverse range of topics from industrial manufacturing to fundamental glass science.

Speaker 1: Dr. Sriram Dattaguru (Director, Supplier Engineering, Substrate Packaging Technology Development, Intel Corporation, Tokyo, Japan)

Topic: “Next-Generation Ceramics for Advanced Packaging: Glass Substrate Ecosystem”

Dr. Dattaguru delivered a comprehensive talk on the shift from organic to glass-based substrates in semiconductor packaging. He detailed the technical challenges and breakthroughs in achieving high-density interconnects and dimensional stability required for next-generation computing, offering a rare insight into the cutting-edge research happening in the semiconductor industry.

Speaker 2: Dr. K. Annapurna (Chief Scientist & Divisional Chair, Glass Division, CSIR-CGCRI, Kolkata)

Topic: “Glass: A Key Material for Scientific Advancement and Technological Innovation”

Dr. Annapurna captivated the audience by tracing the journey of glass from a traditional material to an enabler of modern science. She discussed specialized glasses used in photonics, fiber optics, and high-power laser applications, showcasing the work being conducted at CSIR-CGCRI and underscoring glass’s irreplaceable role in scientific instrumentation. Her presentation documented marvellous development in glasses, embracing the best our country has to offer.

Speaker 3: Prof. S. Manisha Vidyavathy (Department of Ceramic Technology, Anna University, Chennai)

Topic: “Emerging Roles of Ceramic Materials in Modern Technological Advancements”

Professor Vidyavathy provided a broad yet insightful overview of the field, connecting fundamental ceramic processing with emerging applications in energy storage, electronics, and biomedicine. Her talk effectively tied together the themes of the previous lectures, highlighting the vast potential of advanced ceramics.

4. Interaction and Participation

The seminar was characterized by a high level of engagement. Following each talk, the speakers participated in lively discussions with the audience. Students and research scholars posed pertinent questions regarding industrial scalability, research methodologies, and future career pathways in the field of ceramics. The interactive nature of the sessions was praised by both the speakers and the attendees.

5. Closing Session (1:00 PM – 1:10 PM)

The event concluded with a formal vote of thanks delivered by a representative of the InCerS Student Chapter. The organizers expressed sincere gratitude to the speakers for sharing their invaluable expertise, to the faculty for their guidance, and to the participants for their enthusiastic involvement. The efforts of the organizing committee and volunteers were also acknowledged for the seamless execution of the event.

6. Conclusions

The half-day seminar was a resounding success, serving as a vibrant platform for knowledge exchange and networking. It successfully highlighted the pivotal role of ceramic materials in modern technological advancements, ranging from semiconductor packaging to advanced photonics. The event reaffirmed the strong research culture at IIT (BHU) and the proactive spirit of its student community. The InCerS

Student Chapter at IIT (BHU) looks forward to organizing more such events to continue fostering learning and innovation in the field of ceramic engineering.

7. Glimpses






