



भारतीय
प्रौद्योगिकी
संस्थान
काशी हिन्दू विश्वविद्यालय



INDIAN
INSTITUTE OF
TECHNOLOGY
BANARAS HINDU UNIVERSITY

One-Day Workshop

on

Advancements in Ceramic Powder Processing: Techniques, Applications, and Innovations

Sponsored By

DIA-CoE, IIT(BHU) Varanasi

Organized By

Department of Ceramic Engineering,

Indian Institute of Technology (BHU), Varanasi



26 Oct 2024



TLC Hall, IIT (BHU)

Convener

Dr. Kundan Kumar
Assistant Professor
Dept. of Ceramic Engineering
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Co-Convener

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Assistant Professor
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Registration Details:

Registration Link: <https://rb.gy/lil5tj>
Registration: Deadline: 20th October 2024

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- **No Registration Fee.**
- **Limited seats are available.**

About IIT (BHU)

The Indian Institute of Technology (Banaras Hindu University) owes its existence to Mahamana Pandit Madan Mohan Malviya, Bharat Ratna-the founder of the first residential university of modern India, the Banaras Hindu University. The three of the erstwhile engineering colleges of BHU, namely BENCO, MINMET and TECHNO, were merged to form the Institute of Technology (IT-BHU) in 1968 to provide an integrated educational base. The ITBHU has been admitting students through the JEE conducted by the IIT's since 1972, and has been consistently ranked amongst the top few engineering institutions of the country. IT-BHU became IIT (BHU) on June 29, 2012, by an Act of Parliament. The Institute has maintained high academic standards since its inception. It has turned out luminary engineers and administrators who served the nation with great distinction.

About the Department

The founder of Banaras Hindu University, Bharat Ratna Mahamana Pandit Mandan Mohan Malviya Ji has started courses in Glass and Ceramic Technology as early as 1924 with the noble objective of advancing glass and ceramic technology in India. In the year 1956, the Departments of Glass Technology and Ceramic Technology were merged to form the Department of Silicate Technology. In the year 1968, the Department of Silicate Technology was renamed as the Department of Ceramic Engineering under the Institute of Technology, Banaras Hindu University (IT-BHU). The first-ever department was established in pre-independent India and Asia to develop skilled human resources for various ceramic industries country-wide. Presently, the department offers 4-Year B. Tech (Bachelor of Technology), 5-Year (Integrated Dual Degree) IDD (i.e., Bachelor + Master), 2-Year M. Tech (Masters of Technology), and Ph.D. Programs in the areas of Ceramic/Materials Science and Engineering. The Department of Ceramic Engineering is celebrating its Centenary throughout the year 2024 by organizing various technical talks, symposia, alumni meetings, and conferences.

Who can attend

This workshop is specifically designed for research scholars, industry personnel, scientists, and faculty members of the institutes/universities/research labs who are keenly working with ceramic powders as a tool for a wide variety of applications.

About DIA-CoE, IIT (BHU)

Varanasi

The Industry Academia - Centre of Excellence (DIA-CoE) at IIT (BHU) Varanasi will promote indigenous technologies to reduce India's defence imports and make India Atmanirbhar in the defence sector. This Centre of Excellence will provide a strong platform to establish collaboration between the DRDO Scientists and faculty members of IIT-BHU. The initial phase of this centre will focus on accelerating research projects under three verticals – Powder Metallurgy, Electronic and Functional Materials, and High Power Microwave Sources and Devices. It is anticipated that numerous start-up companies and Industries would like to be part of this Centre in its journey towards excellence.

Topics to be Covered

- Introduction to Ceramic Powders: Importance of ceramic materials in various industries
- Role of ceramic processing on the microstructure and properties
- Importance of analytical tools for powder characterization for insights
- Crystallographic exploration of Ceramics at room and high Temperatures
- Process-Structure-Property Correlations
- Future Trends and Challenges

Tentative Speakers

1. **Prof. Rajeev Ranjan, IISc Bangalore**
2. **Prof. Shobit Omar, IIT Kanpur**
3. **Dr. Mithun Palit, DMRL, DRDO**
4. **Dr. S. N. Achary, BARC**
5. **Dr. Ram Subbareddy, DMRL, DRDO**