

**Department of Metallurgical Engineering
Indian Institute of Technology (Banaras Hindu University)**

Established in the year 1923, Department has pioneered metallurgical education and research in the country. The far-sighted vision of Bharat Ratna Mahamana Pandit Madan Mohan Malaviyaji has helped this Department to attain such a distinction.

Celebrated

Silver Jubilee	1948
Golden Jubilee	1973
Diamond Jubilee	1983
Platinum Jubilee	1998

Milestones

- 1923 - Bachelor's Degree Course Started
- 1927 - The First ever Bachelor's Degree Awarded in the Country
- 1955 - Master's Degree Course Started
- 1955 - The first ever Department in the country to award PhD in Metallurgy
- 1957 - One of the first two Departments in the country to award Master's Degree in Metallurgy

Recognitions

- 1976 - Special Assistance Program of UGC (SAP)
- 1980 - Centre of Advanced Study (CAS) Status granted by UGC (1st Engg. Dept. in the Country)
- 1981 - QIP Centre Status granted by MHRD
- 1982 - Department obtained National Electron Microscope Facility (NELMIF) by DST
- 1984 - Department obtained Melting & Rolling Facility under Colombo Plan (UK)
- 1986 - Department recognized under COSIST (UGC)
- 2001 - Department obtained Grants under FIST by DST
- 2004 - Department obtained IV Phase grants under CAS
- 2015 - Malaviya Chair for Railways Technology, Ministry of Railways, Govt. of India
- 2016 - Advance Research Centre for Iron & Steel, Ministry of Steel, Govt. of India
- 2020 - Financial Assistance under FIST by DST

About Varanasi

Varanasi, the holy city of India, is also known by the name of Kashi and Banaras. Kashi, the city of eternal peace for Hindus for centuries, is known for its fine quality silks, mouth freshener, and Banaras Hindu University. One of the seven holiest cities, Varanasi is the oldest living city of the world. Varanasi is more than 3000 years old and is famous as the city of temples. Kashi Vishwanath Dham Corridor was inaugurated by the Prime Minister of India Shri Narendra Modi ji on 12th December 2021. Sarnath is 10km away from Varanasi. The museum, excavation and the Buddhist temples bear the testimony of amalgamation of Indian culture with the neighbouring countries.

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 Updhyay (Mughal Sarai) are the important rail junctions that link Varanasi with all major cities of India. Delegates are advised to make their own arrangement of stay in the city. Limited rooms are available for the invited speakers in the Institute guest house. For further details please visit the conference website and for any queries write to: accommodation.metcent2023@gmail.com.

Delegate Registration for conference

Registration details	Fees
Indian delegates from Industry, Professional	Rs. 12,000
Indian delegates from academia and research labs	Rs. 10,000
Indian Student and Spouse	Rs. 5,000
IIT(BHU) Alumni	Rs. 5,000
Any accompanying person or spouse with the delegate	Rs. 5,000
Overseas speakers / delegates	USD 300
Alumni from overseas	USD 150

The above fees in INR (₹) is inclusive of 18%GST. GST is not applicable for the present student and faculty of IIT (BHU) Varanasi. Registration fee shall include registration kit, welcome dinner, working lunches, banquet dinner. Last date of registration: 31-08-2023

Conference Sponsorship

Type	Indian (₹)	Overseas (\$)	Complimentary benefits
Centenary	10,00,000	15,000	Banner, advertisement in souvenir, 6 free delegates.
Platinum	7,00,000	9,000	Banner, advertisement in souvenir, 5 free delegates.
Diamond	5,00,000	7,000	Banner, advertisement in souvenir, 4 free delegates.
Gold	3,00,000	4000	Banner, advertisement in souvenir, 3 free delegates.
Silver	2,00,000	3000	Banner, advertisement in souvenir, 2 free delegates.
Bronze	1,00,000	2000	Banner, advertisement in souvenir, 1 free delegates.

We also welcome direct sponsorship for conference lunch/dinner/registration kits.

The fees in INR (₹) is inclusive of 18%GST.

A Souvenir will be published during the conference giving detailed programs, technical sessions & other details. A full-page advertisement in Souvenir – INR 30,000/- Interested parties may please contact us at metcent2023.iitbhu@gmail.com

Payment Method

Payment will be accepted only through Bank/Electronic/Wire Transfer.

Name of the Account Holder	Registrar, IIT (BHU), Varanasi
Complete Address	Indian Institute of Technology, (Banaras Hindu University), Varanasi – 221005, India, Ph: +91 542 2307002, 2367780
Name of the Bank	State Bank of India
Account Number	32778803937
A/C name	IIT (BHU)-Main Account (Institute Development Fund)
Type of Account	Current
SWIFT	SBININBB125 (International delegates may use this code)
IFSC CODE	SBIN0011445 (Domestic delegates may use this code for NEFT Transfer)
MICR Code	221002036
Bank Address	State Bank of India, IT-BHU Branch, Branch code-11445, IIT (BHU) Varanasi-221005, UP, India, Ph-0542-2369181

NOTE: Once the payment is confirmed, we request you to kindly download the registration / sponsorship Form from the Website - <https://conferences.iitbhu.ac.in/> METCENT-2023, fill it and send us soft copy of the same along with your payment receipt through the email: metcent2023.iitbhu@gmail.com
Refund Policy: Request for Registration Fee Refund in case of cancellation or No-Show may not be possible under Institute Regulations.



**International Conference
on
Metallurgical Engineering and
Centenary Celebration**

OCTOBER 26-28, 2023

METCENT-2023



Organized by

**Department of Metallurgical Engineering
Indian Institute of Technology (BHU) Varanasi-221005
(U.P.) India**



METCENT 2023

The Department of Metallurgical Engineering, Indian Institute of Technology (Banaras Hindu University) provides quality education and excels in research in several disciplines such as physical, mechanical and extractive metallurgy. The International conference on Metallurgical Engineering and Centenary Celebration (METCENT 2023) is organized by the Department of Metallurgical Engineering, Indian Institute of Technology (BHU) at IIT(BHU) Varanasi, India from October 26th -28th, 2023. METCENT 2023 is providing a unique opportunity to all the metallurgists and materials scientists, academicians and industry experts to come to the city of knowledge and share their experience on this special occasion. It also gives an excellent platform to all the alumni of the Department of Metallurgical engineering to refresh their memories after decades and rejoice the golden days.

The Department is also willing to establish Centenary Chair Professorship to attract world class researchers to visit the IIT (BHU), to conduct collaborative research and initiate advanced R&D at the Institute. Therefore, we invite all the alumni of the Institute, to generously sponsor this mega event.

Organizing Committee

Patron

Professor Pramod Kumar Jain
Director IIT (BHU), Varanasi

Chairman

Professor Sunil Mohan
Head of the Department, Metallurgical Engineering

Convener

Dr. Girija Shankar Mahobia
Associate Professor

Treasurer

Dr. Sudipta Patra
Assistant Professor

Members

All the faculty, staff and students of the Department

Contact us :

Dr. Girija Shankar Mahobia

Associate Professor

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Advisory Committee

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Prof. S Seetharaman Royal Institute of Technology, Sweden	Mr. Kedar Nath Gupta Canada
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National

Professor Govind S Gupta IISc Bangalore	Professor RC Gupta IIT (BHU) Varanasi
Dr. Tata Narasinga Rao Director, ARCI, Hyderabad	Professor TR Mankhand IIT (BHU) Varanasi
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Prof. T.A. Abinandanan IISc Bangaluru	Professor Amit Rastogi Institute of Medical Sciences, BHU, Varanasi
Professor BP Kashyap IIT Jodhpur	

Tentative list of Speakers

Prof. Rajiv S Mishra University of North Texas, USA	Dr. Jagannath Pal Chief Scientist, CSIR-NML, Jamshedpur
Dr. Deep Jariwala University of Pennsylvania	Prof. Vakil Singh IIT (BHU), Varanasi
Dr. Tata Narasinga Rao Director, ARCI Hyderabad	Prof. TR Mankhand IIT (BHU), Varanasi
Dr. Prasad Raghupatruni Botswana International University, South Africa	Prof. RC Gupta IIT (BHU), Varanasi
Prof. V.S. Raja IIT Bombay	Dr. D. Satish Kumar JSW Steel Ltd, Bellary
Prof. M. Kamraj IIT Madras	Mr. Mrigendra Singhai JSW Steel Limited, Mumbai
Dr. Vikas Kumar Director (Retd), DMRL/DRDO, Hyderabad	Mr. Ritesh Patel Sr. DGM & Head, Welding Engineering & Metallurgy Department, L&T, Surat
Prof. Anish Updhyay IIT Kanpur	

Call for abstract

Abstracts are invited on the following major themes:

Technical Session-1:

Session I: Microstructure and texture, Electron microscopy and other advanced Characterization Techniques
Session II: Nano Materials/Biomaterials/Magnetic Materials
Session III: Defence, Aerospace and Nuclear Materials
Session IV: Heat Treatment and Phase Transformation
Session V: Integrated Computational and Materials Engineering (ICME)
Session VI: Corrosion and its protection
Session VII: Emerging and Functional Materials

Technical Session-2:

Session I: Structure property correlation
Session II: Tensile, Fatigue, Corrosion fatigue, and Creep behaviour
Session III: Surface Engineering, Tribology and Composite Materials
Session IV: Failure Analysis, Non Destructive Technologies and case studies
Session V: Additive Manufacturing and advanced manufacturing techniques
Session VI: Advanced equipment used for testing & Characterization
Session VII: Metal Joining Technologies

Technical Session-3:

Session I: Ferrous Process Metallurgy
Session II: Nonferrous extractive metallurgy
Session III: Design and Development of Advanced Steels
Session IV: Advanced Solidification processes
Session V: Thermodynamics and Kinetics of Metallurgical Processes
Session VI: Green steel technologies
Session VII: Recycling of Metallurgical wastes

The abstracts for the contributory presentations are invited from the authors in the above major themes of the conference. The abstract of maximum 300 words (Times New Roman, 12 font size and 1.5 spacing in MS word file format) has to submit by email to metcent2023.iitbhu@gmail.com.

Important dates:

The abstract submission deadline is 30th April 2023
Acceptance confirmation by 15th May 2023
The full manuscript submission is 31st June 2023

The accepted papers will be published in the special issue of Banaras Metallurgist/

Venue

Department of Metallurgical Engineering

Indian Institute of Technology (BHU), Varanasi, 221005
Uttar Pradesh, India