### 5<sup>TH</sup>INDO-AUSTRIAN SYMPOSIUM ON MATERIALS ENGINEERING

ASME-2024





Department of Metallurgical and Materials Engineering Indian Institute of Technology Kharagpur



### 5<sup>TH</sup> INDO-AUSTRIAN SYMPOSIUM ON MATERIALS ENGINEERING

# **IASME-2024**



Department of Metallurgical and Materials Engineering Indian Institute of Technology Kharagpur

#### MESSAGE

From the Chairperson & Co-Chairperson

We are pleased to announce the organization of the 5th Indo-Austrian Symposium on Materials Engineering (IASME 2024), which will be held on 12th and 13th December 2024 at IIT Kharagpur. This symposium marks an important milestone in continuing the tradition of fostering global collaboration in materials science.

Following the success of previous symposia, IASME 2024 has attracted remarkable participation from domestic

and international materials researchers. The event will feature insightful discussions and presentations from experts in the field, with a focus on high-temperature materials, advanced steels, additive manufacturing, sustainable materials, and solutions to environmental degradation. This conference has attracted contributions from 200 experts representing research institutes, universities, and industries, ensuring a vibrant exchange of ideas and collaborations.

Since its inception, the Department of Metallurgical and Materials Engineering at IIT Kharagpur has been at the forefront of materials research and education. With over seventy years of legacy, the department is recognized for its cutting-edge research in physical metallurgy, processing, microstructural characterization, mechanical behaviour, and environmental degradation of materials. In recent years, we have expanded into emerging fields such as energy materials, biomaterials, ceramics and composites, and computational modelling, contributing to national development and global research.

We are grateful for the support from our sponsors, whose generous contributions make this symposium possible. We also extend our heartfelt thanks to the invited speakers for their invaluable participation and to all those who have contributed to the organization of this event. We warmly welcome all delegates to Kharagpur and wish everybody a pleasant stay and fruitful participation in this exciting and fruitful symposium.

Prof. S. B. Singh,

Prof. Ille Christine Gebeshuber

## INTERNATIONAL Scientific Advisory Committee



**Prof. S. Kalidindi**Georgia Institute of Technology



**Prof. Sir Harry Bhadeshia**Queen Mary University
of London



**Prof. Amit Bandyopadhyay**Washington State
University



**Prof. Phil Withers**University of Manchester



Prof. Martin Heilmair Karlsruhe Institute of Technology



**Prof. Paolo Colombo**University of Padova



**Prof. Nikhilesh Chawla** Purdue University



**Prof. Amit Misra** University of Michigan



Prof. Lucas Bichler University of British Columbia



## INDO-AUSTRIAN Advisory Committee



Prof. J. Bernardi Technische Universität Wien



**Dr. Sabine Bodner** Montanuniversität Leoben



**Dr. Klaudia Hradil** Technische Universität Wien



**Dr. Manfred Drack** University of Tübingen



**Dr. ANDRÉ GAZSÓ**Austrian Academy of Sciences



**Dr. K. Balasubramanian** Director NFTDC, Hyderabad



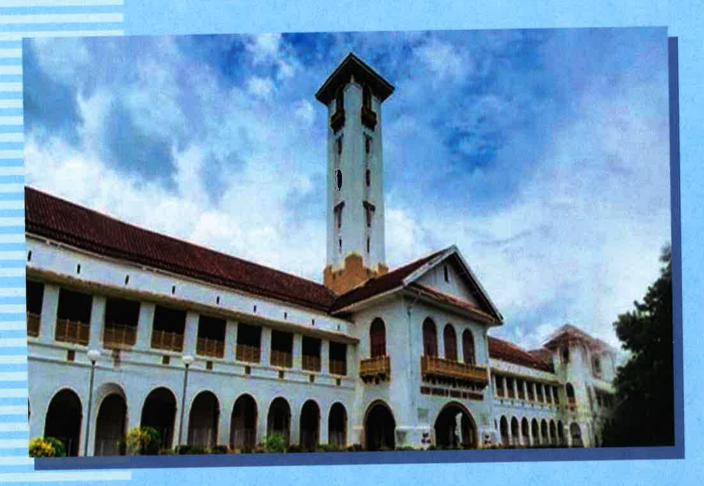
**Prof. N. Prabhu**IIT Bombay



**Dr. M. Roy** DMRL









Department of Metallurgical and Materials Engineering Indian Institute of Technology Kharagpur