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An International Conference

Translational Research: Metals and Materials

19 – 21st November 2023



25 commemorates
years celebration of

Department of Materials & Metallurgical Engineering

Organized by
**Department of Materials &
Metallurgical Engineering**
**National Institute of Advanced
Manufacturing Technology**
(Formerly NIFFT)

Hatia Ranchi - 834003

www.trmm2023.com

**Peer reviewed papers will be published in
reputed journals**

About TRMM 2023

Industry 4.0 is challenging and full of opportunities for various organizations and institutes. Be it the mining sector, steel industry, defense, mobility, electronics and so on. Materials and Metallurgical Engineering has always been the driver of advancements in these sectors. The International conference, TRMM 2023 comes to focus on the translational research in field of materials & metals to bridge out the gap between concepts to commercial scale production. TRMM 2023 is an event in which Industry, R&D and Academia will come together to share their learnings, challenges and opportunities for futuristic growth of metallurgical and materials sector. The three days conference will encompass the following broad areas :

- ❖ Scope and definition of translational research in materials and hardware
- ❖ Approach towards responsible use and recycling of resources in materials technology
- ❖ Potential materials and processes awaiting translation into pilot scale field trial and commercial exploitation
- ❖ Benchmarking in the process of translation across the innovation chain;
- ❖ Potential application areas of translational research in metals and materials;
- ❖ Translational research in the industry 4.0 framework including integration with IOT
- ❖ System and funding readiness and policy changes to promote translational research
- ❖ Case studies and success stories in the area of translational research

About NIAMT

In consonance with the general guidelines of UNESCO (1962) regarding establishment of specialized institutes, National Institute of Foundry and Forge Technology (NIFFT) was created in 1966 under the UNDP program to cater to the need of a large number of technicians. The particular emphasis was on Foundry and Forge technology to meet the demand of trained manpower in the primary metal manufacturing sectors like automobile, heavy engineering, machine and component manufacturing etc. The forward-looking endeavor, pursued over the years, has evolved a four-tier academic framework in NIFFT involving advanced diploma, B Tech, M Tech and doctoral program with a balanced emphasis on training, education and research. In 2021, name of the Institution was changed from “National Institute of Foundry and Forge Technology” to “National Institute of Advanced Manufacturing Technology (NIAMT)” .

About Department

This conference is a celebration to the successful completion of 25 years (silver jubilee) of Department of Materials and Metallurgical Engineering. MME Department was established in 1998, has emerged as a powerhouse for academics, scientific research and cutting-edge technologies. The department is actively involved in research areas such as development of Metal Matrix Composites (MMC) using Laser Technique, Spark Plasma Sintering, Cladding and Warm Extrusion, thermo-mechanical treatment effect on mechanical properties and corrosion resistance of nano-alloyed steel and Fe-Ni steel, synthesis of novel material system such as high entropy alloy, eco-friendly solder alloy and many more. All these research areas are explored in association with experts from nearby entities such as Tata Steels, Usha Martin, RDCIS, SAIL, and NML etc

Organizing Committee: All the faculty members of the MME Department

Sponsorship details

This International Conference welcomes sponsorship to support the consortium of intellects to upgrade and grow together. The sponsorship opportunities are as follows:

Platinum Sponsorship: at least 3,00,000 INR

Gold Sponsorship: at least 1,00,000 INR

Silver Sponsorship: at least 50,000 INR

Conference Schedule

Start of Abstract Submission	15/08/2023
Last date of Abstract Submission	15/09/2023
Review of Abstracts	till 15/10/2023
Acceptance notification of Abstract	15 to 25/10/2023
Payment deadline	10/11/2023
Paper Submission	15/12/2023

Abstract can be submitted either to technical.trmm2023@gmail.com or via website

Registration Details

National

- ❖ Research Scholars/Students: INR 1000/-
- ❖ Faculty: INR 4000/-
- ❖ Industrial Person : INR 6000/-

International

- ❖ Research Scholars/Students: \$ 50
- ❖ Faculty: \$ 100
- ❖ Industrial Person : \$ 150

Bank Details

Account Name : TRMM 2023

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Tentative list of Speakers

Prof. Shiv Gopal Kapoor

University of Illinois Urbana-Champaign
United States

Prof. Marc J Madou

University of California, Irvine

Dr. Martin Strangwood

University of Birmingham, UK

Prof. Sir Harry Bhadesia

University of London, UK

Dr. Rajesh Ransing

Swansea university, UK

Prof. Manoj Gupta

National University of Singapore, Singapore

Dr. N Kalaiselvi

First women chief CSIR, Central Electrochemical Research Institute
Government of India

Prof. Ashutosh Sharma

Former DST Secretary, Government of India

Prof. Indranil Manna

Vice Chancellor, BIT Meshra

Prof. B S Murty

Director, IIT Hyderabad

Dr. Satish Ogale

Director, Research Institute for Sustainable Energy, Kolkata

Dr. Kishora Shetty

Boeing Leadership Network India Region, Bengaluru

Dr. Niyanth Sridhran

Manager R&D, Lincoln Electric, Tamilnadu

Dr. Pankaj Kumar

University of New Mexico, US State

Dr. Renu Gupta

Head, Design QA and Design Manufacturing
Larsen & Toubro, Mumbai