

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

For Immediate Release: October 10, 2025

Press-Release

Three-Day International Conference on Thermofluids Engineering (INCOTHERM 2025) Kicks Off at IIT (ISM) Dhanbad

The three-day 1st International Conference on Thermofluids Engineering (INCOTHERM 2025), organized by the Department of Mechanical Engineering, IIT (ISM) Dhanbad, commenced today at the Golden Jubilee Lecture Theatre as part of the institute's centenary celebrations, marking 100 years of academic and research excellence.

Delivering the **inaugural address as Chief Guest**, **Prof. Poh Seng (P.S.) Lee**, Professor and Head of the Department of Mechanical Engineering at the **National University of Singapore (NUS)**, emphasized the growing importance of *sustainable cooling*, *energy efficiency*, and *waste heat recovery* in the modern industrial ecosystem. He highlighted the challenges of thermal management in high-performance systems such as data centers in tropical climates, where free cooling is restricted by hot and humid conditions. Prof. Lee explained how his research group employs **ohmic heaters**—instead of GPUs or CPUs—to simulate heat generation, enabling **precise environmental control** and **accurate thermal measurement**. He called for a **climate-aware design philosophy**, underscoring the need for **interdisciplinary collaboration** and **industry partnerships** to drive innovation and develop climate-resilient technologies.

Prof. Sarit Kumar Das, Institute Professor, Department of Mechanical Engineering, **IIT Madras**, who graced the occasion as **Guest of Honour**, stressed the importance of creating an enabling **academic ambience** in Indian institutions. He noted that while India is rich in talent, it is essential to channel this potential effectively for impactful outcomes. He lauded **INCOTHERM 2025** for providing the ideal environment for collaboration and intellectual exchange.

Prof. Sukumar Mishra, Director, IIT (ISM) Dhanbad, in his inaugural address, spoke about India's **rich legacy of science and technology**, deeply rooted in ancient scriptures. Differentiating between *Gyan (knowledge)*, *Vigyan (scientific analysis of knowledge)*, and *Pradyogiki Vigyan (technology)*, he emphasized that the **application of scientific knowledge for economic progress** is vital for national development.

Prof. Somnath Chattopadhyay, Head of the Department of Mechanical Engineering and **Chairman**, **INCOTHERM 2025**, extended a warm welcome to all distinguished guests, delegates, and participants. He drew inspiration from India's ancient learning centers such as **Nalanda** and **Vikramshila**, likening them to IIT (ISM) Dhanbad's modern-day spirit of inquiry and innovation. Prof. Chattopadhyay remarked that "no mountain is taller than the human pursuit of knowledge," commending the organizing team for upholding IIT (ISM)'s century-old legacy through this global academic congregation.

Earlier, **Prof. Pawan Kumar Singh**, **Convener**, delivered the **welcome address**, outlining the objectives and themes of the conference, while **Prof. Deepak Kumar**, **Joint Convener**, proposed the **vote of thanks**.

Featuring plenary and keynote sessions by renowned experts including Prof. P.S. Lee (NUS, Singapore), Prof. B.B. Saha (Kyushu University, Japan), Prof. S.K. Das (IIT Madras), Prof. M. Ramgopal (IIT Kharagpur), Prof. A. Agrawal (IIT Bombay), and Prof. S. Ansumali (JNCASR, Bengaluru), INCOTHERM 2025 will cover a broad range of topics such as multiphase flow, computational and experimental fluid dynamics, microfluidics, clean energy, refrigeration and HVAC, aerodynamics, thermal management, and AI/ML applications in heat transfer and fluid flow.

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With participants from India and abroad, INCOTHERM 2025 is set to serve as a global hub for knowledge exchange, reinforcing IIT (ISM) Dhanbad's commitment to research excellence, sustainability, and innovation as it celebrates its centenary year.

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