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### Organising Committee

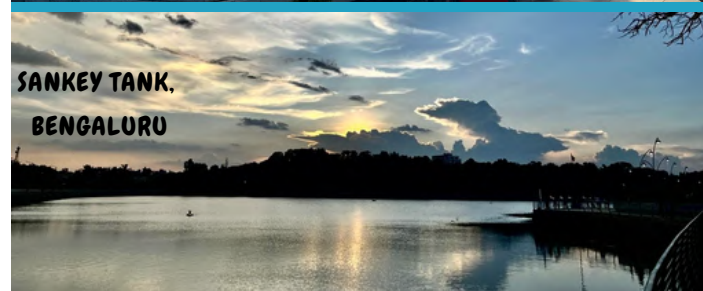
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## ORGANIZER INDIAN INSTITUTE OF SCIENCE, BENGALURU, INDIA

### CONFERENCE SECRETARIAT :

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## FIRST ANNOUNCEMENT

# FIFTH INTERNATIONAL CONFERENCE ON THE SCIENCE & TECHNOLOGY OF IRONMAKING AND STEELMAKING (STIS-V)

**DECEMBER 9 - 12, 2025**



# ABOUT STIS SERIES

This Conference was initiated by India when there was dwindling manpower and lack of technology development in the area of iron and steel making. The first Conference entitled Advances in the Theory of Ironmaking and Steelmaking (ATIS) was held in 2009 at the Indian Institute of Science (IISc), Bengaluru, focussing on the theoretical aspects of iron- and steel making, as envisioned by Prof. A. Ghosh, Prof. Emeritus, Indian Institute of Technology (IIT), Kanpur, India. The overwhelming success achieved by its organization, resulted in the Conference becoming a quadrennial event and was rechristened as Science and Technology of Ironmaking and Steelmaking (STIS) to include technology. The Second, Third, and Fourth STIS Conferences were organised at Jamshedpur in 2013 (by National Metallurgical Laboratory (NML)/Tata Steel), IIT Kanpur in 2017, and IIT Bombay in 2022, respectively.

# ABOUT STIS-V 2025

The 21st century is witnessing significant development in technology and an ever-increasing growth in the manufacturing and infrastructure sectors. With this swift pace of development, there is an equivalent increase in the demand forecast for steel production all over the world. In addition, there is a huge impetus towards the iron and steelmaking processes becoming more sustainable by reducing harmful emissions and the carbon footprint. Consequently, researchers in the process metallurgy domain are continuously engaged in developing existing technologies and exploring alternatives. Keeping this view in mind, the fifth edition in the series of Science and Technology for Ironmaking and Steelmaking (STIS-V - 2025) Conference is being organised to showcase the advancements in the science and technology of ironmaking and steelmaking in different parts of the world.

# CALL FOR PAPERS

Authors are requested to submit abstracts within 250 words on any aspect given in the scope of Conference. All abstracts will be peer reviewed, and the authors will be notified accordingly. The abstracts may be prepared in MS word format and sent electronically to the Conference e-mail address – [stis.mte@iisc.ac.in](mailto:stis.mte@iisc.ac.in)

Participation of students is strongly encouraged. All student papers would be presented in dedicated poster/oral session.

# CONFERENCE TOPICS

- Fundamentals of Iron and Steelmaking
- Raw materials, use of low-grade ores and agglomeration
- Coke, PCI, Hydrogen, Syngas, Biomass, and other auxiliary fuels
- Blast furnace and alternative routes for the production of hot metal
- DRI/Solid-state ironmaking processes
- Primary, secondary steelmaking and clean steel technology
- Ingot and continuous casting
- Electric arc/Induction furnace steelmaking
- Process modelling and simulation in iron and steelmaking
- Energy, environment, and sustainability in iron and steel making
- Emerging and sustainable iron and steelmaking processes
- Refractories in iron and steelmaking
- Digital transformation, Industry 4.0, and data analytics in iron and steel making
- Waste recycling and circular economy in iron and steel making

# IMPORTANT DATES :

- Abstract submission :** 30th April 2025
- Acceptance of the abstract :** 30th May 2025
- Submission of paper/extended abstract:** 30th September 2025

# CONFERENCE PROCEEDING

Papers/extended abstract after peer-review process will be published in a Conference Proceeding. Attempts are being made to publish selected papers in identified international journals after due refereeing process as per journal requirements.

## International Advisory Committee

- Bart Blanpain, KU Leuven, Belgium  
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