

INTERNATIONAL CONFERENCE ON EMERGING MATERIALS

MRSI-ICEM
2025

17 - 20 Dec 2025

Website: <https://www.niser.ac.in/events/mrsi2025>

36TH AGM OF MRSI & 7TH INDIAN MATERIALS CONCLAVE

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CONFERENCE SYMPOSIA

A. Electronic and Photonic Materials

- A-1: Wide Bandgap Semiconductors
- A-2: Device and materials design
- A-3: Semiconductor for Photonics/photovoltaics
- A-4: Functional materials for optoelectronics
- A-5: Optical resonators/devices

B. Quantum Materials

- B-1: Topological material and devices
- B-2: Magnetic & Superconducting materials and devices
- B-3: 2-D materials and devices
- B-4: Spintronics
- B-5: Skyrmions

C. Energy and Sustainable Materials

- C-1: Self-power devices
- C-2: Porous Materials(MOFs, COFs, Cages and Zeolites)
- C-3: Perovskite Materials
- C-4: Nuclear Materials
- C-5: Piezo, Tribo, Pyro, Thermoelectric materials
- C-6: Sustainable Materials for Energy Conversion & Storage

D. Applied Soft and Biomaterials

- D-1: Bio-derived materials
- D-2: Materials for Bio/Medical Applications
- D-3: Soft Materials Technology
- D-4: Flexible and Wearable Materials

E. Advanced Methods in Materials

- E-1: Advanced Spectroscopic Techniques
- E-2: Advanced Microscopic techniques
- E-3: Advanced Scattering and diffraction techniques
- E-4: Advanced material characterization techniques
- E-5: Advanced device fabrication techniques

F. Alloys and Composites

- F-1: Metallurgical alloys
- F-2: Soft alloys
- F-3: Refractory composites
- F-4: High entropy alloys
- F-5: Polymer composites

G. Critical and Strategic Materials

- G-1: Ion/electron/photon interactions with materials
- G-2: Materials for space and radiation hazards
- G-3: Materials and techniques for national security
- G-4: Materials from waste and strategic minerals

H. Materials Modelling and Simulation

- H-1: DFT for new materials
- H-2: First principle calculation
- H-3: Search for emerging materials
- H-4: Materials modeling methods beyond DFT

ABOUT THE EVENT

The International Conference on Emerging Materials (ICEM-2025), along with the 36th AGM of MRSI & 7th Indian Materials Conclave, will be organized by the NISER, Bhubaneswar, in association with IOP Bhubaneswar, IIT Bhubaneswar, IISER Berhampur, SOA University, and KIIT University from 17th to 20th December 2025.

A special Pre-Conference workshop (for limited participants) on the topic 'Advanced Materials Characterizations' will be held at IISER Berhampur on 16th December 2025.

This conference aims to gather the leading researchers, eminent speakers, students, & industry experts, making it an ideal platform for sharing & exchanging scientific knowledge and innovative ideas.

ABOUT NISER

The National Institute of Science Education and Research (NISER), Bhubaneswar, under HBNI and aided by the Department of Atomic Energy (DAE), is a premier institute dedicated to education and research in basic sciences. Established in 2007 and functioning from its 300-acre Jatni campus since 2015, NISER offers integrated M.Sc., M.Sc.-Ph.D., and Ph.D. programs with a strong focus on nurturing scientific talent.

It houses seven schools of sciences, a Centre for Interdisciplinary Sciences, and a Center of Medical and Radiation Physics, promoting front-end basic science research and innovation. NISER also engages in science outreach and policy-making to inspire young minds and support national science initiatives.

Indian Participants:

- Faculty/Scientists: ₹12,000 Including GST
- Students (UG/PG/Ph.D./PDF): ₹6,000 Including GST
- Industry Participants: ₹20,000 Including GST

Abroad Participants:

- Faculty/Scientists: \$300
- Students (UG/PG/Ph.D./PDF): \$150
- Industry Participants: \$500

Note:

- MRSI members receive a ₹1,000 discount on the registration fee.
- Fee covers sessions, refreshments, meals, reception & abstract book.
- Pre-conference workshop fee is ₹1,000 (Including GST).
- Industry participants need to arrange their own accommodations.

IMPORTANT DATES

Abstract Submission Opens: 20 June 2025
Abstract Submission Deadline: 30 July 2025
Intimation On The Acceptance: 31 August 2025
Payment of Reg. Fee Opens: 01 September 2025

Limited Sleeper class / AC-III train fare travel support is available for student participants from state universities/colleges. Submit your request to mrsi2025@niser.ac.in to avail it.

 **Pathani Samanta Auditorium, NISER Bhubaneswar**

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