

# 36<sup>TH</sup> AGM OF MRSI & 7<sup>TH</sup> INDIAN MATERIALS CONCLAVE & MRSI-ICEM 2025

17 - 20 Dec 2025

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

## INTERNATIONAL CONFERENCE ON EMERGING MATERIALS 2025

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#### 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.

- Chairman:** Prof. Kulamani Parida | SOA University, Bhubaneswar (Chairman, MRSI Bhubaneswar Chapter)
- Convener:** Dr. Pratap K. Sahoo | NISER Bhubaneswar
- Co-Chairman:** Prof. Tapobrata Som | IOP Bhubaneswar
- Co-Convener:** Dr. Bishnu P. Biswal | NISER Bhubaneswar (Joint-Secretary, MRSI, Bhubaneswar Chapter)
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- Dr. Tapan Kumar Rout | PS, R&D, TATA Steel Ltd.
- Prof. Udai P Singh | KIIT University, Bhubaneswar
- Prof. Umaprasanna Ojha | IIT Bhubaneswar

### 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 the 36<sup>th</sup> AGM of MRSI & 7<sup>th</sup> Indian Materials Conclave and International Conference on Emerging Materials (MRSI-ICEM-2025), will be organized by the National Institute of Science Education and Research (NISER), Bhubaneswar in association with MRSI Bhubaneswar Chapter, IOP Bhubaneswar, IIT Bhubaneswar, CSIR-IMMT Bhubaneswar, IISER Berhampur, SOA University, and KIIT University from 17<sup>th</sup> to 20<sup>th</sup> December 2025.

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

We are looking forward to welcoming you to NISER Bhubaneswar - a beautiful campus near the historic Barunei hill, on the eastern coast of the country, within 50 km of the golden beach of Puri and Shri Jagannath Temple. This conference aims to gather the leading researchers, eminent speakers, students, and industry experts, making it an ideal platform for sharing and 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.

### 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](mailto:mrsi2025@niser.ac.in) to avail it.

 Pathani Samanta Auditorium, NISER Bhubaneswar

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