National Conference on Sensing and Technologies (NCST-2026)

14-16 March, 2026 | Toshali Sands, Puri
Organized by Institute of Physics, Bhubaneswar

NCST-2026

This initiative is designed to provide a critical evaluation of the present state, inherent limitations, prospective directions, and key challenges in the rapidly advancing field of sensing. The primary objective of the conference is to bring together a distinguished and varied group of scientists dedicated to the development and application of sensing technologies. Participation in this workshop will be by invitation, thereby fostering a focused and high-level exchange of scientific ideas

Abstract submission

Participation in the conference is restricted and contingent upon the acceptance of your abstract.
A limited number of abstracts will be selected for oral presentation

Abstract submission
Till February 28, 2026

Registration

(After selection of abstract)
March 1-5, 2026

Organizing committee

Prof. K.K. Nanda (Chairman)
Prof. T. Som (Co-Chairman)
Prof. B.K. Panigrahi
Dr. S. N. Sarangi (Secretary)

Contact us

Dr. S. N. Sarangi
Email : *ncst-2026@iopb.res.in*
Web: *https://iopb.res.in/ncst2026/*

Registration fees to be ₹6000* for Research scholars / Post doctoral fellows / Scientists

*(*Includes accommodation, food & conference kit)*

Scan to submit abstract

Topics

- *Nanomaterials and Functional Materials for Sensing Applications Exploration of nanostructured, hybrid, and functional materials that enhance the performance, selectivity, and sensitivity of advanced sensors for chemical, biological, and environmental monitoring*
- *Optical, Photonic, and Plasmonic Sensing Technologies, Recent developments in light-matter interactions, optical fibers, photonic crystals, and plasmonic nanostructures for precise detection and real-time imaging applications*
- *Electrochemical and Gas Sensors for Environmental Monitoring, Advances in electrochemical sensing mechanisms, gas detection systems, and portable sensor platforms designed for pollution control, industrial safety, and atmospheric analysis*
- *Smart, Wearable, and Flexible Sensor Systems Innovations in stretchable, flexible, and body-integrated sensors for healthcare diagnostics, motion tracking, and smart electronic devices*
- *Sensor Integration, Signal Processing, and Data Analytics, Artificial intelligence, IoT connectivity, and advanced signal-processing techniques for intelligent sensor networks and decision-making systems*
- *Applications of Sensing Technologies in Energy, Defense, and Healthcare, Multidisciplinary applications of advanced sensing systems in energy management, defense technologies, biomedical diagnostics, and environmental sustainability*

Scope

- *To provide a unique platform in applied science for discussing emerging challenges and opportunities in sensing technologies*
- *To bring together leading scientists, postdoctoral researchers, and doctoral scholars from across India for presenting research, sharing innovative ideas, and fostering scientific collaborations*
- *To enhance understanding of complex issues associated with sensing technologies and explore strategies to address these challenges*
- *To review current trends, concerns, and practical challenges while highlighting solutions that have been successfully adopted*
- *To identify and outline future research directions in diverse domains of sensing technologies*