

# International Conference and Exposium on Quantum Sensing and Metrology ICEQSM 2025

**Dates : June 11–13, 2025**

The **International Conference and Exposium on Quantum Sensing and Metrology (ICEQSM)**, is a prestigious event organized by **CQ<sub>u</sub>ERE, TCG CREST, Kolkata**, as part of the **International Year of Quantum Science and Technology (IYQ) 2025** celebrations. As one of the three thematic conferences under IYQ celebrations, this conference will bring together **leading researchers, industry experts, and innovators** to discuss the latest advancements and challenges in **Quantum Sensing and Metrology**.

## TOPICS:

- Novel phenomena for quantum sensing
- Sensors and devices for quantum metrology
- Atom-based quantum-enhanced sensors: cold atom interferometers, atomic clocks, magnetometers, Rydberg sensors
- Light-based sensors: quantum-enhanced imaging systems, quantum lidar, quantum radar
- Superconducting sensors
- Solid state quantum sensors: NV centers in diamond, quantum dots, single photon emitters
- Quantum sensor-based microscopy and spectroscopy
- Theoretical quantum estimation, sensing and metrology

## PATRON:

**TCG CREST**  
Chairman/Director

## CHAIR:

**Bhanu Pratap Das**

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- |                      |                             |
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| ▪ Satya Ram Mishra   | ▪ Ian Petersen              |
| ▪ Tapobrata Som      | ▪ Shailendra Kumar Varshney |

## CONVENORS:

- |                  |               |
|------------------|---------------|
| ▪ Aishik Acharya | ▪ Tanmoy Basu |
| ▪ Shibdas Roy    |               |

## REGISTRATION FEES

### For National Participants

- |             |             |
|-------------|-------------|
| ▪ Students  | : INR 3000  |
| ▪ Post-Docs | : INR 5000  |
| ▪ Faculties | : INR 7000  |
| ▪ Industry  | : INR 10000 |

### For International Participants

- |             |           |
|-------------|-----------|
| ▪ Students  | : USD 200 |
| ▪ Post-Docs | : USD 300 |
| ▪ Faculties | : USD 400 |



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ABSTRACT SUBMISSION BY:  
**15<sup>th</sup> May 2025**

ABSTRACT NOTIFICATION BY:  
**23<sup>rd</sup> May 2025**

REGISTRATION DEADLINE:  
**30<sup>th</sup> May 2025**

## SPEAKERS:

- |                     |                      |
|---------------------|----------------------|
| ▪ Ron Folman        | ▪ Manas Mukherjee    |
| ▪ Ian Petersen      | ▪ Dominik Bucher     |
| ▪ Dmitry Budker     | ▪ Animesh Datta      |
| ▪ Arka Majumdar     | ▪ Kasturi Saha       |
| ▪ Subhadeep De      | ▪ Poonam Arora       |
| ▪ Arijit Sharma     | ▪ Umakant Rapol      |
| ▪ Phani Kumar       | ▪ G. Rajalakshmi     |
| ▪ Bijoy Krishna Das | ▪ Santu Sardar       |
| ▪ Saikat Ghosh      | ▪ Nirmalya Ghosh     |
| ▪ Ashok Mahapatra   | ▪ Satya Kesh Dubey   |
| ▪ Bikash Ghosal     | ▪ Goutam Pramanik    |
| ▪ Ashok Vudayagiri  | ▪ Akshay Singh       |
| ▪ Kaushalya Jhuria  | ▪ Praveen Bhallamudi |
| ▪ Paul Griffin      | ▪ Joyee Ghosh        |
| ▪ Sourav Dutta      | ▪ Ajay Tripathi      |

## CO-HOSTS:

*Sensors Research Society, Metrology Society of India, Indian Radio Science Society*

## LOCAL ORGANIZING COMMITTEE:

- |                        |                        |
|------------------------|------------------------|
| ▪ Amlan Chakrabarti    | ▪ Abhishek Bhardwaj    |
| ▪ Amit Banerjee        | ▪ Kaustav Ghosh        |
| ▪ Sourav Chatterjee    | ▪ Anju                 |
| ▪ Nabanita Deb         | ▪ Anupam Patra         |
| ▪ Prasanta Karmakar    | ▪ Nawaz Sarif Mallick  |
| ▪ Shrabana Chakrabarti | ▪ Prasenjit Deb        |
| ▪ Sankar De            | ▪ Sujan Maity          |
| ▪ Md. Mabud Hossain    | ▪ Midhun Murali        |
| ▪ Chiranjib Mitra      | ▪ Harish Rathore       |
|                        | ▪ Anumita Mukhopadhyay |

## CO-SPONSORED BY:

*To be announced soon*

## ORGANIZED BY:

**Centre for Quantum Engineering, Research and Education  
(CQ<sub>u</sub>ERE), TCG CREST, Kolkata, INDIA**

For more details, please visit: <https://sites.google.com/view/iceqsm-2025/home>  
For any queries, feel free to contact us: [iceqsm2025@tcgcrest.org](mailto:iceqsm2025@tcgcrest.org)