

# 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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- Akira Furusawa
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- Dmitry Budker
- Luiz Davidovich
- Amitava Sen Gupta
- Ian Petersen
- Lorenza Viola
- Shailendra Kumar Varshney
- Reena Dayal

## CONVENERS:

- Aishik Acharya
- Tanmoy Basu
- Shibdas Roy

## SPEAKERS:

- Ron Folman\*
- Guofeng Zhang\*
- Ian Petersen\*
- Dmitry Budker\*
- Arka Majumdar\*
- Hidehiro Yonezawa\*
- Dipankar Home
- Subhadeep De
- Arijit Sharma
- Phani Kumar
- Bijoy Krishna Das
- Saikat Ghosh
- Ashok Mahapatra
- Bikash Ghosal
- Ashok Vudayagiri
- Kaushalya Jhuria\*
- Paul Griffin\*
- Sourav Dutta
- Kanhaiya Pandey
- Manas Mukherjee\*
- Luiz Davidovich\*
- Dominik Bucher\*
- Animesh Datta\*
- Kasturi Saha
- Jaewook Ahn\*
- Poonam Arora
- Umakant D. Rapol
- G. Rajalakshmi
- Santu Sardar
- Nirmalya Ghosh
- Satya Kesh Dubey
- Goutam Pramanik
- Akshay Singh
- Praveen Bhallamudi
- Joyee Ghosh
- Pratap Raychauduri
- Ajay Tripathi

\*remote online talk

## CO-HOSTS:

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

## LOCAL ORGANIZING COMMITTEE:

- Amlan Chakrabarti
- Amit Banerjee
- Sourav Chatterjee
- Nabanita Deb
- Prasanta Karmakar
- Shrabana Chakrabarti
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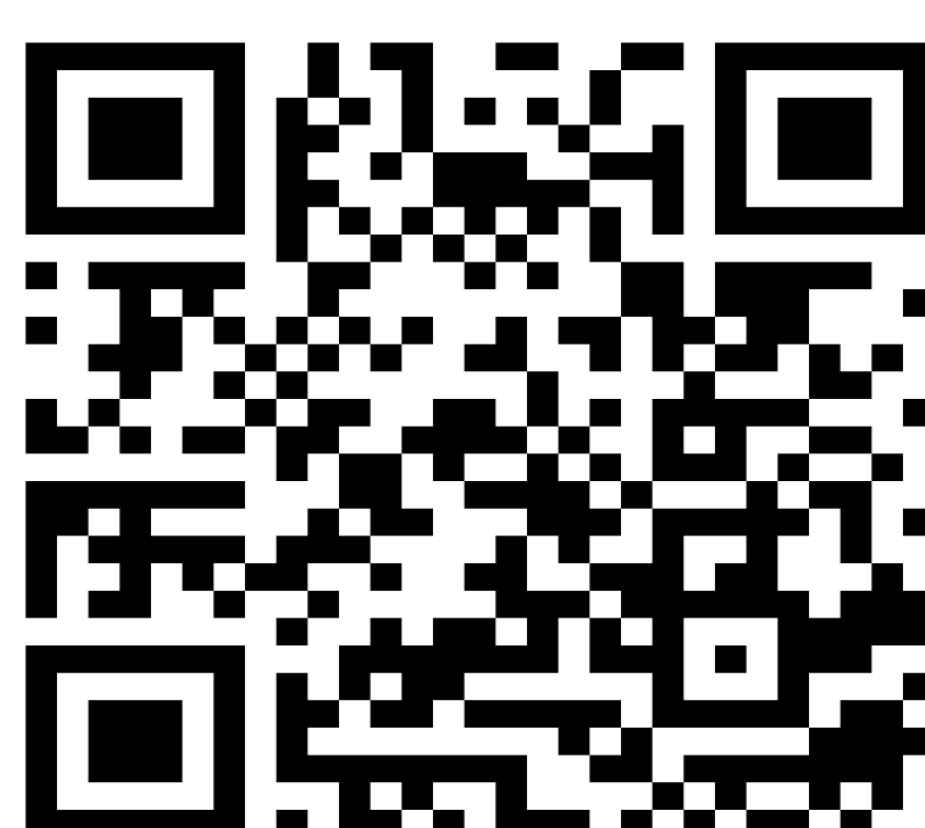
## ORGANIZED BY:

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

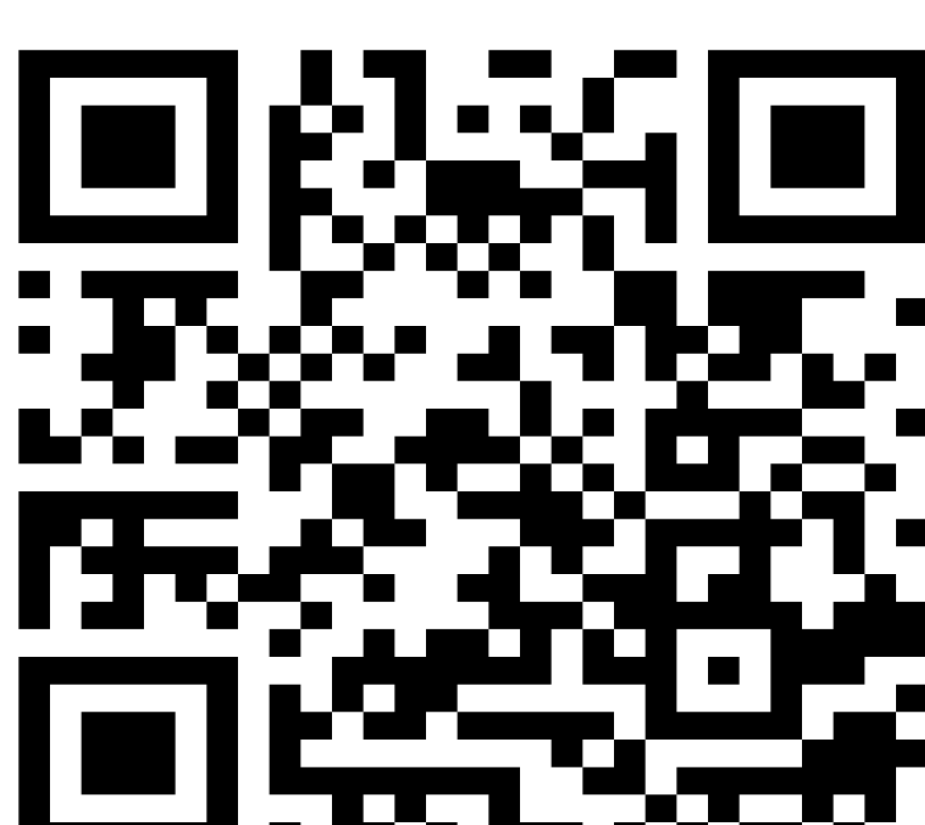
For more details, please visit: <https://sites.google.com/view/iceqsm-2025/home>  
For any queries, feel free to contact us: [iceqsm2025@tcgcrest.org](mailto:iceqsm2025@tcgcrest.org)

## REGISTRATION FEES

| ✓ For National Participants      |                                      |                                   |
|----------------------------------|--------------------------------------|-----------------------------------|
|                                  | Early-Bird (by 2 <sup>nd</sup> June) | Late (after 2 <sup>nd</sup> June) |
| Student                          | Rs. 3000                             | Rs. 3500                          |
| Post-Doc                         | Rs. 5000                             | Rs. 5500                          |
| Faculty/Scientist                | Rs. 7000                             | Rs. 8000                          |
| Industry                         | Rs. 10,000                           | Rs. 12,000                        |
| ✓ For International Participants |                                      |                                   |
|                                  | Early-Bird (by 2 <sup>nd</sup> June) | Late (after 2 <sup>nd</sup> June) |
| Student                          | USD 200                              | USD 250                           |
| Post-Doc                         | USD 300                              | USD 350                           |
| Faculty/Scientist                | USD 400                              | USD 500                           |



[Submit Abstract here!](#)



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

ABSTRACT NOTIFICATION BY:  
**26<sup>th</sup> May 2025**

EARLY-BIRD REGISTRATION DEADLINE:  
**2<sup>nd</sup> June 2025**