



HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)



KCG
COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS



International Conference on Quantum Horizons 2025: Materials, Intelligent Technologies & Sustainable Futures

18 - 19 December 2025

Chennai, Tamil Nadu, India

Chief Guest

NOBEL LAUREATE

Dr. Moungi Bawendi

Professor,
Massachusetts Institute of Technology, USA
Nobel Prize in Chemistry, 2023



Keynote Speakers



Dr. Ajayan Vinu

Director of Global Innovative Centre
for Advanced Nanomaterials (GICAN),
University of Newcastle, Australia



Mr. L.Venkata Subramanian

IBM Quantum,
India



Mr. Mohan Satyaranjan

CTO, IITM Pravartak
Technology Innovation Hub IIT Madras



Dr. Prasanta Kumar Muduli

Professor,
IIT Madras

Organised by

**Department of Chemistry, Physics, Computer Applications, ECE,
Hindustan Institute of Technology & Science & KCG College of Technology**



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About the Conference

The International Conference on Quantum Horizons 2025: Materials, Intelligent Technologies & Sustainable Futures aims to bring together leading researchers, academicians, industry experts and innovators from across the globe to explore the transformative potential of quantum technologies. The conference will serve as a platform for interdisciplinary exchange, spanning the frontiers of quantum materials, quantum devices, quantum communication, quantum computing and their integration with advanced domains such as artificial intelligence, machine learning and next-generation engineering applications.

Quantum Horizons 2025 seeks to foster collaboration between physicists, material scientists, computer scientists and engineers, thereby accelerating the translation of quantum research into real-world solutions. Keynote addresses, plenary talks, technical sessions and panel discussions will highlight breakthroughs in quantum science and its applications in information processing, secure communication, sensing technologies and intelligent systems.

By bridging fundamental quantum science with engineering innovation, Quantum Horizons 2025 aspires to shape the future of quantum-enabled technologies, nurturing knowledge-sharing, industry - academia partnerships and global cooperation. This conference will provide participants with valuable opportunities to network, share insights and contribute to the rapidly evolving quantum ecosystem.

About Hindustan Institute of Technology & Science

Hindustan Institute of Technology & Science (HITS), a Deemed to be University established in 1985, is a prestigious institution in India renowned for its commitment to excellence in education. HITS offers a broad array of Undergraduate, Postgraduate, Diploma, Research, and Doctoral programmes across diverse disciplines, including Engineering & Technology, Architecture, Management, Law, Fashion & Design, Liberal Arts, Aviation, Applied & Allied Health Sciences. Technical programmes at UG and PG levels are AICTE approved and NBA accredited. Nine B. Tech programmes are accredited by the Institution of Engineering and Technology (IET). Hindustan Institute of Technology & Science, NAAC A+ accredited is a part of the Hindustan Group of Institutions, serving over 25,000 students globally which is known for four decades of excellence in Aeronautical, Aerospace, and Automotive Engineering.



HITS was honoured with diamond award in the QS I Gauge Indian University Rankings 2024. ranked 601+ in Asia in THE World University Rankings 2024. Overall, HITS was ranked 601-800 out of 1963 in IMPACT Ranking. HITS has been ranked 240 in Southern Asia and in the 751-800 Band in Asia at the QS World University Rankings 2025.

About KCG College of Technology

KCG College of Technology (A unit of Hindustan Group of Institutions) was established in 1998 to fulfill the vision of Founder-Chairman, Dr. KCG Verghese "To Make Every Man a Success and No Man a Failure". KCG College of Technology affiliated to Anna University, Chennai is an Autonomous Institution and approved by AICTE, New Delhi. The college offers fourteen undergraduate and five post-graduate programmes. Six undergraduate programmes have Permanent Affiliation under Anna University. Six undergraduate programmes are accredited by the National Board of Accreditation (NBA). The college is accredited by NAAC with A+ Grade. Eight departments have been approved as research centres by Anna University to offer Ph.D. programmes. The campus of KCG College of Technology is beautifully landscaped in a lush green stretch of land spread over 38 acres at Karapakkam, which is about 10 km from Adyar on the Old Mahabalipuram Road, the IT corridor of Chennai.



Conference Key Themes

The conference provides platform for the participants to present their research posters for insightful deliberations in the following themes:

- » Quantum Materials Innovation
- » Quantum Technology and Applications
- » Sustainable Energy and Environmental Applications
- » Engineering Applications of Quantum Technology
- » Quantum Computing and Quantum Communication
- » Cloud Computing and Security
- » Natural Language Processing and Generative AI
- » Advanced Materials for Future Technologies

Abstract Submissions

Submit your abstract to showcase your research in a poster presentation at Quantum Horizons 2025. Share your innovative findings, engage with leading experts, and gain valuable insights.

Submit your abstract today through the Registration Link: <https://forms.gle/T274vMastRdnQkeYA>



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CSIR-NIIST, Trivandrum

Participant Profile

Academicians, Industry Professionals,
Research Scholars, UG & PG students

Award Category

Best Poster Presentations

Publications

Selected peer-reviewed full-length articles
will be published in Scopus indexed book
chapters

Registration Details

Category	Registration	
Presentation	INR	USD
UG / PG Students	1500	75
Research Scholars	2000	75
Academicians	2500	75
Industry Professional	3500	100
Only Participation	1500	75

Dates to Remember

Abstract Submission

30 November 2025

Intimation of Acceptance

05 December 2025

Payment of Registration Fee (Regular)

10 December 2025

**Group discounts applicable for
participants from the same organization**



For further details

hits.icqh2025@gmail.com

Registration & Abstract Submission Link: <https://forms.gle/T274vMastRdnQkeYA>

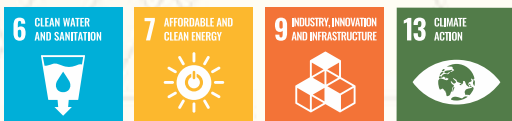
Venue Details

18.12.2025

**Hindustan Institute of
Technology and Science**

19.12.2025

KCG College of Technology



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