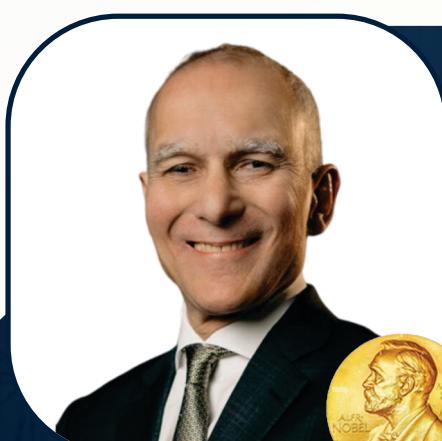




# International Conference on **Quantum Horizons 2025: Materials, Intelligent Technologies & Sustainable Futures**

18 - 19 December 2025

Chennai, Tamil Nadu, India



## Chief Guest

**Dr. Moungi Bawendi**

Professor,

Massachusetts Institute of Technology, USA

Nobel Prize in Chemistry, 2023

**NOBEL LAUREATE**

## Keynote Speakers



**Prof. Karen Wilson**

Editor in Chief  
Sustainable Energy & Fuels  
Griffith University, Australia



**Prof. Adam Lee**

A\*star, Singapore  
Editor in Chief  
Materials Today Chemistry



**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**



NATIONAL  
INSTITUTIONAL  
RANKING  
FRAMEWORK  
2025

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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 | 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 under-graduate and five post-graduate programmes. Six under-graduate programmes have Permanent Affiliation under Anna University. Six under-graduate 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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of Technology and Science

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Professor, Chemistry, HITS

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Associate Dean Research  
& Head-ECE, HITS

## Dr. M. Krishnamurthy

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Professor, Physics, HITS

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Scientist-F, CENCON, HITS

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Professor & Head, MTR, KCG Tech

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## Dr. Subrata Das

Principal Scientist  
CSIR-NIIST, Trivandrum

## Participants

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)

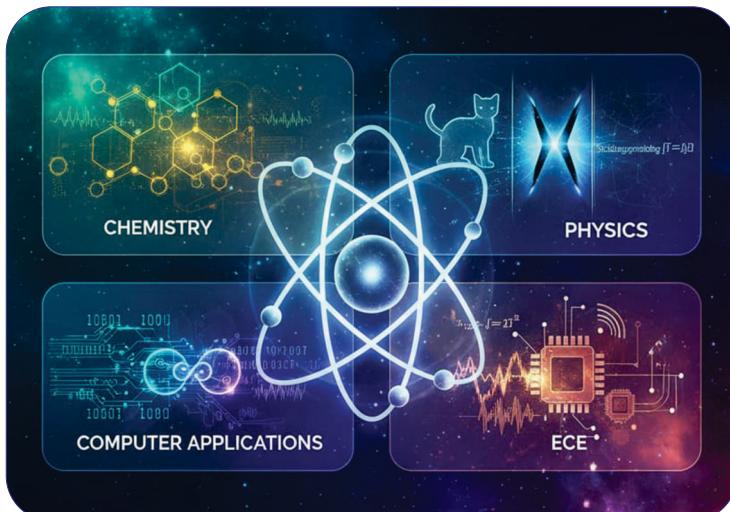
**10 December 2025**

For further details



[hits.icqh2025@gmail.com](mailto:hits.icqh2025@gmail.com)

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



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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