



FIRST INTERNATIONAL QUANTUM COMMUNICATION CONCLAVE

Organized by **TEC, C-DOT and TSDSI**

in technical collaboration with

IEEE Communications Society
Delhi Chapter

📍 Hall No. 5, Vigyan Bhawan, New Delhi

📅 27-28 March 2023

🌐 <https://cdot.in/qc23>

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Telecommunication Engineering Center (TEC) together with the Telecommunications Standards Development Society, India (TSDSI), Centre for Development of Telematics (C-DOT) and Institute of Electrical and Electronics Engineers (IEEE) Communications Society Delhi chapter are organising the First International Quantum Communication Conclave, bringing together the international experts in the domain, practitioners, start-ups, researchers and the scientific community. The objective is to exchange the state-of-the-art technologies, discuss implementation challenges and explore collaboration opportunities and networking. The Conclave highlights Quantum Key Distribution, Quantum Random Number Generator, Post Quantum Cryptography, Quantum Networks, Sensors, Advanced detectors, Quantum memory, Testbeds, Quantum communication Standards, Use cases, Implementation issues etc. The audience include Research community, Telecom Service providers, Start-up companies, Industries working on Quantum communication, Standard development organizations, Regulators & Policy makers, Defense, Fintech companies, Banks etc.



Sh. Ashwini Vaishnav

Hon'ble Minister of
Communications, Railways and IT



Sh. Devusinh Chauhan

Hon'ble Minister of
State for Communications



Prof. Ajay Kumar Sood
PSA to Govt. of India



Sh. K. Rajaraman
Secretary, DoT



Dr. S. Chandrasekhar
Secretary, DST



Dr. Samir V Kamat
Chairman, DRDO



Sh. Uma Shanker Pandey
Member(S), DoT



Sh. R.R. Mittar
Sr. DDG and Head, TEC

Trends in Quantum Technology



Dr. Rajkumar Upadhyay
CEO, C-DOT



Prof. Mustafijur Rahman
IIT Delhi



Prof. Bhaskaran Muralidharan
IIT Bombay



Prof. Umakant D Rapol
Project Director, QTF, IISER
Pune

Building a Quantum Network



Dr. Samir V Kamat
Chairman, DRDO



Sh. Nixon Patel
CEO, QuLabs



Sh. Nilesh M. Desai
Director, SAC, ISRO



Prof. Krishna Das
IIT Madras



Prof. Kausik Majumdar
IISc Bengaluru



Dr. Sadik Hafizovic,
CEO, Zurich
Instruments AG ,
Zurich, Switzerland

Challenges and Prospects for Quantum Technology Development



Dr S. Chandrasekhar
Secretary, DST



**Sh. Nagendra
Nagaraja**
CEO, QpiAI



Sh. Timothy P. Spiller
Director,
Quantum Communications Hub,
UK



**Sh. Abdul
Kayum**
DDG, 6G Technologies, TEC



Sh. YGSC Kishore Babu
DDG, SRI Division, DoT



Dr. Bruno Huttner
Director, ID Quantique,
Geneva



Prof. Urbasi Sinha
Raman Research Institute,
Bengaluru



Dr. S.D. Sudarshan
Executive Director, C-DAC



Prof. Michele Mosca
Co-founder,
Institute for Quantum Computing,
University of Waterloo



**Prof. Prabhakar
Krishnan**
Scientist,
Amrita Center for
Cybersecurity



Dr. Pankaj Dalela
Director,
Member Board, C-DOT

Quantum in Satellite Communication



Sh. Sanjeev Agrawal
Member(T),
DoT



Sh. Dilip Singh
Chief Product Officer,
QNu Labs



Prof. Urbasi Sinha
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Institute



Prof. R.P Singh
Physical Research
Laboratory, Ahmedabad



Dr. Bruno Huttner
Director, ID Quantique,
Geneva

Security in the Quantum-Era



Smt. Pamela Kumar
DG, TSDSI



Sh. G. Narendra Nath
Joint Secretary, NSCS



Sh. Tommi Lampila
Director of
Business Development,
Xiphera, Finland



Sh. Atul Kumar Gupta
Group Leader, C-DOT



Sh. Animesh Aaryan
CEO, Taqbit Labs



Sh. Prashant Chugh
Group Leader, C-DOT



Sh. Subhra Kanti Das
Head, Research & Technology,
Thales

Standardization efforts on Quantum Technologies



Sh. R.R. Mittar
Sr. DDG and Head, TEC



**Sh. Matthew
Campagna**
Amazon Web Services
Cryptography, United States



Prof. Anil Prabhakar
IIT Madras



**Prof. C. M.
Chandrashekar**
IISc, Bengaluru



Dr. Dustin Moody
NIST

Quantum Communication: Industrial Perspective and Use Cases



Lt. General M.U. Nair
SO-IN-C, Indian Army



Prof. D. Janakiram
Director, IDRBT



Sh. Sunil Gupta
CEO, QNu Labs



Sh. Satish Jamadagni
Reliance Jio



Dr. Dong-Hi SIM
SK Telecom, South Korea



Sh. Pejman Panahi
Senior Director, ID Quantique,
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Smt. Shikha Srivastava
Director, Member Board,
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Sh. Pradeep Kumar
CEO, Qbit Labs



Dr. Manjunath Iyer
Wipro Limited



Sh. Abdul Kayum
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ORGANIZING COMMITTEE



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Telecommunication Engineering Centre is a technical arm of Department of Telecommunications and responsible for formulation of standards, specifications, test procedures, service specifications and technical regulations for communication sector. TEC seeks to promote and ensure standardization in the telecom sector to ensure development of world class telecom network and smooth interconnection of individual networks. TEC actively participates in the meetings of standards development organizations, viz., ITU, ETSI, APT, WRC, etc. and also interacts with other international forums, viz., 3GPP, ETSI, IETF, oneM2M, etc.



Centre for Development of Telematics (C-DOT) is an autonomous Telecom R&D Centre of Department of Telecommunications, Govt of India. Established in 1984, C-DOT has contributed significantly in indigenous design, development and production of telecom technologies especially suited to Indian conditions. In its initial years, C-DOT triggered a telecom revolution in rural India that was responsible for all-round socio-economic development. Over the years, C-DOT has developed a large number of products of national and strategic importance in various Telecom areas such as Optical, Switching, Wireless, Security and Network Management. C-DOT is also contributing significantly in development of products in technologies such as M2M/IoT, 5G, AI and Quantum Security. In Quantum Security Vertical, C-DOT has developed Quantum Security products in the areas of Quantum Key Distribution (QKD) as well as Post-Quantum-Cryptography (PQC). C-DOT also has plans to increase its Quantum Communication Security products' portfolio in the upcoming years.



Telecommunications Standards Development Society, India (TSDSI), <https://tsdsi.in> is an autonomous, membership-based, standards development organization (SDO) for Telecom/ICT products and services in India. We develop standards for access, back-haul, and infrastructure systems, solutions, and services that best meet India-specific Telecom/ICT needs, based on research and innovation in India. We work closely with global standards bodies to reflect Indian requirements into international telecom/ICT standards. TSDSI is carrying out a Study on Post-Quantum-Cryptography for 5G Networks [SI 78]. TSDSI has also initiated a Technology Roadmap Item Proposal (TRIP) Forum on Quantum Communications to identify opportunities for standardization.