

## Quantum Accelerated Computing Symposium and Workshop

### Day1: 15<sup>th</sup> October 2024 (Symposium)

Time	Speaker	Title of Talk
08:30 - 09:30	Registration	
09:00 - 09:30	Breakfast	
09:30 - 11:00	Inaugural Session	
11:00 - 11:15	Tea break	
11:15 - 11:45	Col (Retd.) P. Sai Shankar, VSM, National Quantum Mission, DST	Applications of Quantum Technologies
11:45 - 12:15	Shri. Nikhil Malhotra CIO, Maker's Lab, TechMahindra	TBD
12:15 - 12:45	Prof. Joyee Ghosh, IIT Delhi	Trusted-node-free Secure Quantum Communication
12:45 - 13:30	Lunch	
13:30 - 14:00	Prof. Amlan Chakrabarti, University of Calcutta	Quantum Circuit Cutting: Optimizing Quantum Processing Elements in the NISQ Era
14:00 - 14:30	Prof. Arindam Ghosh, IISc Bangalore	Emerging and future materials and device platform for quantum computing and associate technologies
14:30 - 15:00	Shri. Amit Shrivastava, RCI, DRDO	Quantum Entanglement: A resource for Information Processing
15:00 - 15:30	Dr. Santu Sardar, DYSL-QT Lab	Journey of Quantum Computing: National Initiatives
15:30 - 16:00	Dr. Kalyan Dasgupta, IBM	IBM Quantum
16:00 - 16:15	Tea break	

Time	Speaker	Title of Talk
16:15 - 16:45	Dr. Vidya Niranjana, RV college of Engineering	Advancing Drug Discovery and genomics via Quantum amalgamation
16:45 - 17:15	Mr. Amit Saxena, C-DAC Pune	Quantum Accelerators
	End of Day 1	
<b>Day 2: 16th Oct 2024 (Workshop)</b>		
Time	Speaker	Title of Talk
09:00 - 09:30	Breakfast	
09:30 - 10:00	Mr. Vivek Nainwal, C-DAC Hyderabad	Introduction to Qsim toolkit
10:00 - 11:00	Ms. Shikha Mehrotra, C-DAC Bengaluru	Lab session on QSim for quantum programming
11:30 - 11:45	Tea break	
11:45 - 13:00	Mr. Nishant Shekhar, C-DAC Patna	Quantum Arithmetic: Additions in the Realm of Reversible Computing
13:00 - 13:45	Lunch	
13:45 - 14:30	Mr. Aashay Pandharpatte, C-DAC Pune	An exploration into quantum algorithms: VQE and Shor's algorithm
14:30 - 15:00	Mr. Vishu Vyas, C-DAC Pune	Lab session on VQE for solving quantum chemistry problems
15:00 - 15:30	Ms. Deeksha Kushwah, C-DAC Pune	Lab session on Shor's algo for factorization of integers
15:30 - 16:15	Dr. Tarun Kumar, Chitkara University	Hands-on session on Binary classification of brain tumor using Quantum SVM
16:15 - 16:30	Tea Break and Goodbye	

