

Science, Technology and Innovation Policy (STIP) Forum Lecture Series

You are cordially invited to the Forty-Ninth STIP Forum Lecture

on

Role and Significance of National Quantum Mission in India's Development

by

Professor Urbasi Sinha

**Head, Quantum Information and Computing Lab,
Raman Research Institute, Bengaluru**

Chair

Professor Ashutosh Sharma

President, INSA and Former Secretary, DST, Government of India

Date: 1 June 2023 (Thursday) Time: 15.00-16.00 IST (*Virtual*)

Registration and joining link: <https://bit.ly/3OF61B0>

ABOUT THE SPEAKER



Professor Urbasi Sinha heads the Quantum Information and Computing (QuIC) laboratory at the Raman Research Institute (RRI) in Bengaluru, India. She is a Simons Emmy Noether Fellow at the Perimeter Institute, Canada as well as an associate faculty member at the Institute for Quantum Computing (IQC), University of Waterloo, Canada, and the Centre for Quantum Information and Quantum Control, University of Toronto, Canada. Her lab at RRI specializes in experiments on photonic quantum information processing including quantum computing and quantum communication, primarily using single and entangled photons. Prof. Sinha is heading India's first project on satellite based secure quantum communications. Her scientific recognitions include the Homi Bhabha Fellowship in the year 2017 as well as the 2018 ICTP-ICO Gallieno Denardo Award in Optics. She was recognised as one of Asia's Top 100 scientists by the Asian Scientist for the year 2019 and has also been awarded the Simon's Emmy Noether Fellowship at the Perimeter Institute, Canada. In August 2020, she led the two-member winning team as a mentor, at the World Skills International Competition in Quantum Technology at the BRICS Future Skills Challenge, organised by the Russian Quantum Centre in Moscow, Russia with competitors from several countries worldwide. She won the ASSOCHAM Women in Cyber: Making a Difference award in the category "Cyber - Leading from the front" in 2021. She completed her PhD at Cambridge University, UK, on experiments in high temperature Superconductivity. She completed her M.Sc in Physics also from Cambridge. She has been a Gates Cambridge scholar during her Ph.D and a Nehru-Chevener scholar during her Masters. She was a post-doctoral research associate in the Cavendish labs, Cambridge as well as at IQC Canada.

ABOUT STIP FORUM: The Science Technology and Innovation Policy (STIP) Forum has been set up with the objective of promoting debate on various aspects of Science, Technology and Innovation Policy. The Forum goes beyond the disciplinary boundaries by taking into account the intersectionality of S&T and I. It aims to bridge the gap between the science and society for dissemination of scientific achievements as well as for generalising debate of societal aspirations and promoting responsible research and innovations. The monthly lecture series of public lectures has been launched (since September 2017) to sensitize the public discourse on science, technology and innovation policy. Research and Information System for Developing Countries (RIS), The Energy Resources Institute (TERI), Indo-French Centre for the Promotion of Advanced Research (CEFIPRA), Vigyan Prasar and India Habitat Centre (IHC) are the collaborating partner institutions.