



**S N BOSE NATIONAL CENTRE  
FOR BASIC SCIENCES**

*Block JD, Sector III, Salt Lake, Kolkata 700 106*

## **DEPARTMENTAL SEMINAR**

# **Condensed Matter and Materials Physics**

**08<sup>th</sup> January, 2024**

**4.00 PM**

**ONLINE/ FERMION**

### **SPEAKER**

**Prof. Deshdeep Sahdev**

Director, Quazar Technologies, New Delhi

### **TITLE OF THE TALK**

**CUTTING-EDGE PHYSICS AT THE INTERFACE OF ACADEMIA & INDUSTRY IN INDIA**

### **ABSTRACT**

The talk will be about a different way of pursuing science in India. It will start with our indigenous development of Variable Temperature Scanning Probe Microscopes (VT-SPM), high-end Chemical Vapor and Atomic Layer Deposition Systems (CVD & ALD), and Measurement Systems for the electric and magnetic properties of materials (PPMS). Several insights into the challenge of making each of these instruments internationally competitive will be shared. How these break-throughs have spawned novel approaches to innovative teaching and research in the fields of material science, condensed matter physics and nano-technology within the country, many of which are being implemented in the doctoral program of QuazarTech, will then be discussed.

### **HOST FACULTY**

**Prof. Tanusri Saha Dasgupta, Senior Professor**

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