



# Semi-sesquicentennial of mecheng@IISc

## Distinguished Seminar Series



### Atomic Force Microscopy Related Techniques -application to Tribology, Colour Imaging and Artificial Reproduction Technology

**Prof. Hideki Kawakatsu**

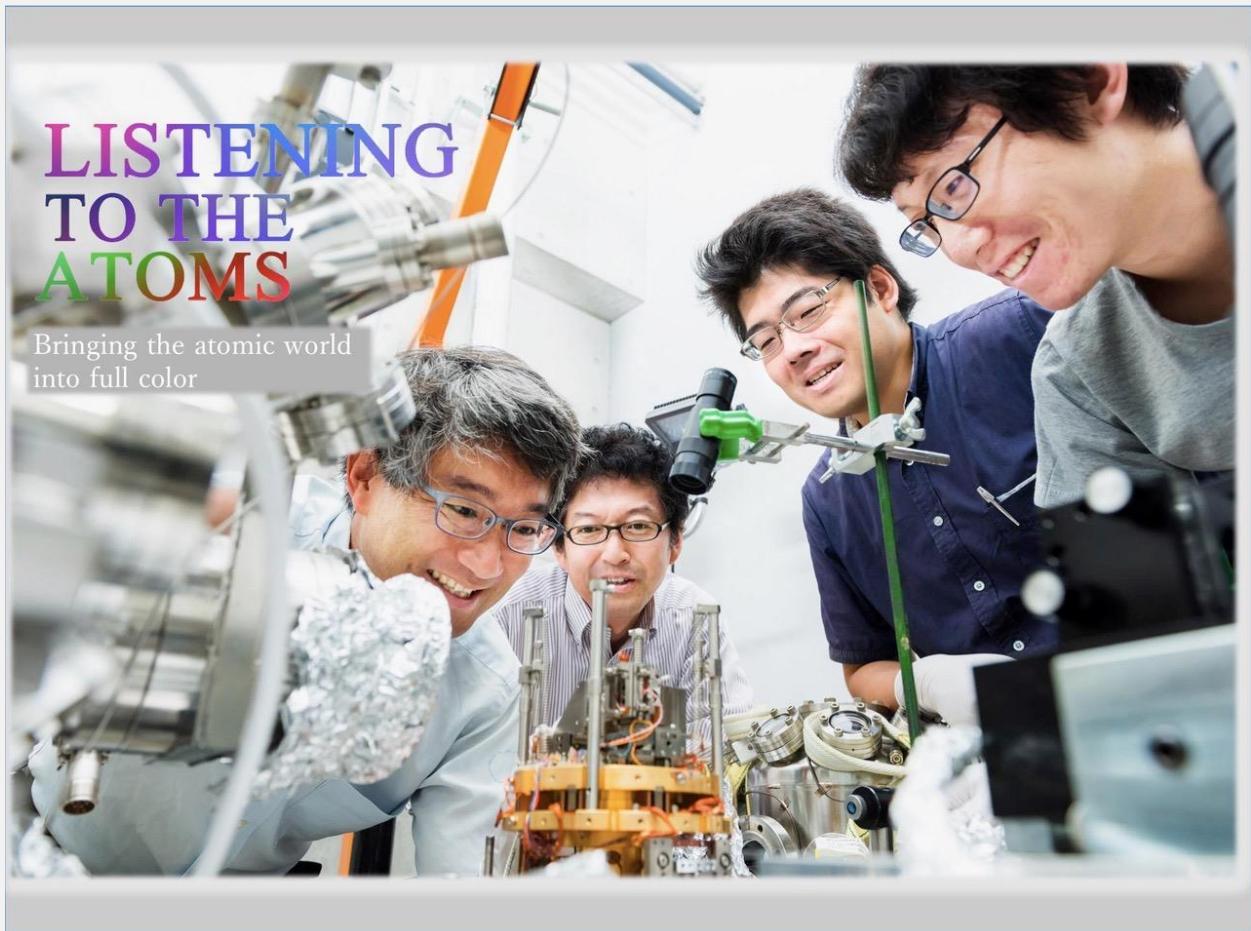
Institute of Industrial Science, The University of Tokyo

**October 1, 2021 at 4:00 PM (IST)**

Meeting link: <https://bit.ly/3lV4kAE> (MS Teams)

#### **ABSTRACT**

Abstract Atomic Force Microscopy (AFM) relies on detection of force at the atomic level for imaging with extremely high resolution. Due to this operating principle, the microscope offers a wide range of application in field of mechanical sensing in the sub-micron regime. I would like to introduce the application of the detection scheme to positioning, Tribology, multi-degrees of freedom force control, and colour imaging. I would also like to share preliminary results on « listening » to gametes or reproduction cells for future applications in artificial reproduction technology.



Session chair: Prof. M. S. Bobji, mecheng @ IISc