



Centre for Biosystems Science and Engineering

'Force' of AFM

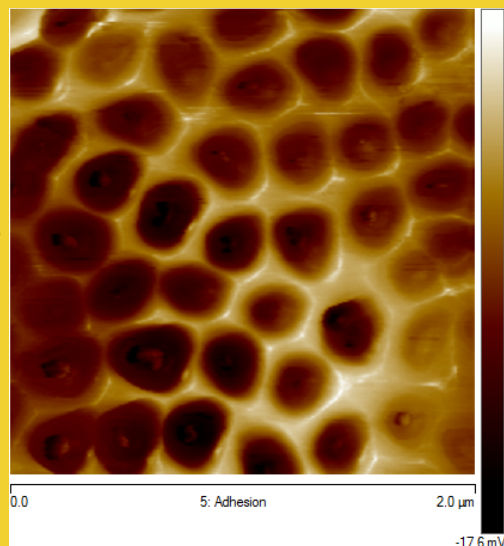
on

28th November 2016,
4:00 PM, MRDG Seminar Hall, 1st Floor, Biological Sciences Building.

by

Prof. M.S Bobji
Department of Mechanical Engineering, IISc.

Atomic Force Microscope has become a routine surface characterisation tool. Though it is named a microscope and is used to visualise the surfaces, AFM does not 'see' the surfaces but 'feels' them just as one would do while reading Braille. This talk will deal with the atomic forces that are felt and how they are measured. The aim of the talk would be to give a basic understanding of the operation of the AFM and bring out the various issues involved in obtaining an 'image'. Operating parameters that need to be fine tuned will be explained with specific examples of 'imaging' soft biological samples.



About the speaker

Dr. M.S. Bobji is a Professor at the Department of Mechanical Engineering, Indian Institute of Science. He obtained his M. Tech degree from IIT, Madras in 1992 and PhD from Indian Institute of Science, Bangalore in 1999. His research interests include small scale material properties, solid mechanics, nano mechanics and surface micro texturing.