



Special Seminar on

Low Dimensional Systems

Organised by

Department of Physics, University of Mumbai

And

Materials Research Society of India, Mumbai Chapter



SPEAKER: PROF. MICHAL PIASECKI
J.Dlugosz University of Czestochowa, Poland



About the speaker: Prof Michal Piasecki is a physicist with the Theoretical Physics Department, Institute of Physics, J. Dlugosz University, Czestochowa Poland. His research Interests are primarily in ab initio modelling of the structure, electronic and optical features of various systems like new chalcogenide and halide compounds for optoelectronic applications ferroelectrics, spectroscopic investigations using synchrotron radiation for novel photonic methods and thin films. He has also held position of Director of Science Institute of Physics, President of Czestochowa Division of Polish Physical Society. He is delivering lecture on

IMPERFECTION, LOW-DIMENSIONALITY AND TENSIONING - A WAY TO IMPROVE THE EXPECTED PROPERTIES OF MATERIALS

Abstract: Low dimension systems in solids, have received several Nobel Prizes. Quantum Hall Effect to von Klitzing and 2010 prize to Geim and Novoselov for the discovery of graphene. Low-dimensional systems are ubiquitous in today's technology and condensed matter physics. The physical laws of ordinary matter are prone to be radically modified by reducing the dimensionality and completely new phenomena can manifest themselves. Rapid advances in reliable computational DFT-based methods have paved a broad way towards increasing importance of theoretical experiments. The present talk would discuss the opportunities and limitations of quantum chemical calculations towards the search for new efficient materials.

17th November 2017 at 3.00 pm

Pherozeshah Mehta Auditorium

Vidyanagari Campus, Santacruz (E), Mumbai-400 098

Dr. G. P. Kothiyal
Chairman, MRSI, Mumbai Chapter

Prof. Vaishali Bambole
Head, Department of Physics

All are Welcome