Physical Research Laboratory, Ahmedabad

Special Talk

Speaker: **Dr. Y. P. Prabhakara Rao,**
Chief Operating Officer, Indian institute of Science, Bangalore and
Dr. Vijayaraghavan,
Chief Technologist, National Nanofabrication Centre, Bangalore

Title: **"National Nanofabrication Centre: Facilities and collaboration opportunities"**

Time: **Thursday, 22 February 2018, 16.00 hrs.**

Venue: **Room no. 113, Thaltej Campus, PRL**

Abstract

The Centre for Nano Science and Engineering (CeNSE) was established at the Indian Institute of Science (IISc), Bengaluru to pursue interdisciplinary research on the nanoscale. Activities of interest to the Centre include, materials, electronics, MEMS/NEMS, photonics, biotechnology, and solar cells. CeNSE houses state-of-the art National Nanofabrication Centre (NNfC), Micro and Nano Characterisation Facility (MNCF) and Packaging facility. NNfC is capable of realizing micro and nano scale devices on various substrates including Si, GaN, SiC, quartz, glass, graphene, and III-V. The facility houses industry standard tools geared to realize a wide variety of Semiconductor Devices, MEMS/NEMS, Photonics, Photovoltaics, Microfluidic and Biosensors. MNCF conducts virtually any type of electrical, optical, mechanical and material characterization. Both of these are national user facilities and are accessible to outside researchers.

Speakers

Dr. Y P Prabhakara Rao is presently at Centre for Nano Science and Engineering at the Indian Institute Of Science, Bengaluru. Formerly he was additional General Manager, Semiconductors, Bharat Electronics Limited, Bengaluru. He worked in Integrated Circuits division, Silicon Power Transistors, Hybrid Micro Circuits, RF and Microwave super components of Bharat Electronics, Bengaluru for 35years. Dr. Y P Prabhakara Rao was responsible for various indigenously developed technologies viz. wide variety of bipolar processes, CMOS, SOICMOS processes, large area low leakage silicon detector technology etc. He has developed various Bipolar and CMOS integrated circuits for consumer, industrial, space and defence and atomic energy applications. He has also developed radiation detectors for CERN (Geneva), BNL(USA), GANIL (France) and KEK (Japan) in collaboration with BARC, VECC and TIFR. He was a recipient of BEL R&D excellence award, Society of Defence Technologists (SODET) gold category Award for technology development of preshoweer detectors for CERN, Indian Electronics and Semiconductors Association (IESA) awards for best electronic product of the year in 2010 and 2011 for Nuclear and aerospace categories respectively.

Dr. Vijayaraghavan is working at the National Nanofabrication centre (NNfC) as Chief technologist. His responsibilities include overall process developments He also takes care of the Business Development works. He has been with NNfC for past 9 years. Earlier to this he was with Philips Research Eindhoven, The Netherlands, as Senior Scientist working on Si and SiGe BiCMOS process integration and Nanowire device integration with mainstream CMOS process.

Tea at 15:30 hrs.

ALL ARE WELCOME

Physical Research Laboratory, Ahmedabad

Special Talk