



INDIAN INSTITUTE OF SCIENCE
BANGALORE

Prof S Ramaseshan Memorial Lecture



Semiconductor Nanowires for Optoelectronics and Energy Applications

Professor Chennupati Jagadish, AC, FAA, FTSE, FTWAS, FNAI
Research School of Physics and Engineering
The Australian National University

Date : Thursday, 27th October 2016

Venue : Faculty Hall, Main Building

Time : 4-00 p.m.

The Director
will preside

Abstract:

Semiconductors have played an important role in the development of information and communications technology, solar cells, solid state lighting. Nanowires are considered as building blocks for the next generation electronics and optoelectronics. In this talk, I will introduce the importance of nanowires and their potential applications and discuss about how these nanowires can be synthesized and how the shape, size and composition of the nanowires influence their structural and optical properties. I will present results on axial and radial heterostructures and how one can engineer the optical properties to obtain high performance lasers, THz detectors and solar cells. Use of nanowires for artificial photosynthesis and engineering of neuronal networks will be discussed. Future prospects of the semiconductor nanowires will be discussed.

Tea : 5-00 p.m.

ALL ARE WELCOME



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AND ENERGY APPLICATIONS

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Book-Post

Invitation

27-10-2016, Thursday

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