

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

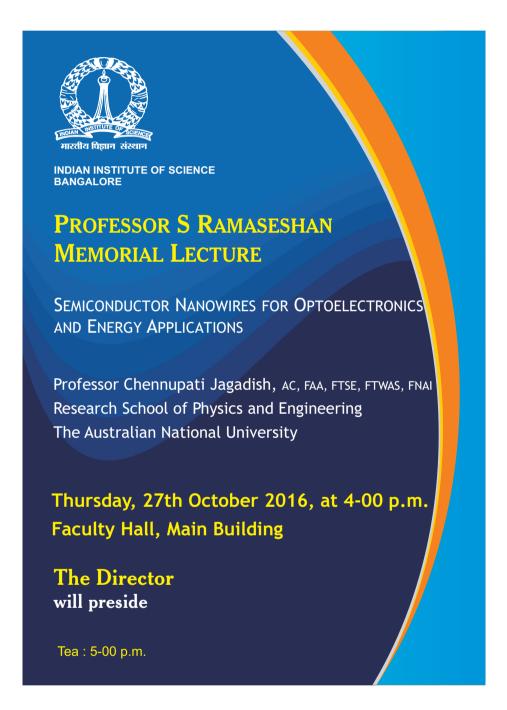
Time: 4-00 p.m.

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



	Invitation	Post
	27-10-2016, Thursday	
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