

# SPOTLIGHT ON FACULTY MEMBER

## Prof. Dr. Jose Rajan, Physicist



Jose was born on 25 May 1971 as the first of two children of V. K. Rajan and B. K. Suseela in Kerala State of India. He received a B.Sc. degree from the University of Kerala and M. Sc. Degree from the Andhra University, India.

***“Knowledge is power”***

In 1995, he started his career as an academic and industrial researcher at the Council of Scientific and Industrial Research (CSIR), India and receiving a PhD degree from the Mahatma Gandhi University for his pioneering work on nanostructured materials for microwave and superconductivity applications. After submission of his PhD thesis, he was awarded the prestigious Dr. K. S. Krishnan Research Associateship from the Govt. of India, which enabled him to work for India's first fast breeder nuclear reactor at the Indira Gandhi Centre for Atomic Research.

In 2003, he joined the National Institute of Advanced Industrial Sciences and Technology (AIST) in Japan where he worked on luminescent quantum dots for energy and healthcare. He published pioneering articles on the relationship between structure and properties of popular II-VI semiconducting quantum dots which was highlighted in Japanese newspapers and televisions. In 2005, he joined the Toyota Technological Institute at Nagoya, Japan where he continued to work on nanomaterials as well as glasses and glass ceramics as optical waveguides and signal processing devices and developed new materials system characterized by high optical gain and large optical gain bandwidth. In 2007, he joined at the National University of Singapore and started working on nanostructured materials for renewable energy.

He joined the Faculty of Industrial Sciences & Technology (FIST) of Universiti Malaysia Pahang in March 2010, where he is presently a Professor of Materials Science and Engineering. He holds 15 patents including US, European, Japanese, and Indian. He has published nearly 100 papers in science citation indexed journals which are cited about 1000 times. He has a family of four: Sushanthy (wife); Maleaya (Daughter born on March 2000) and Shravan (Son born on November 2005).

