COLLOQUIUM

CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY
IN ASSOCIATION WITH DEPARTMENT OF PHYSICS

Prof. D. D. Sarma

speaks on

'Brighter side of semiconductor nanocrystals: How to make defects useful'

Presided by

Prof. Arun K. Grover, Vice Chancellor, P.U. Chandigarh

Venue: Prof. B. M. Anand Auditorium, Department of Physics

Date: 8 March 2018 (Thursday) **Time: 11:00 am**

(Kindly be seated by 10.45 am and keep your cell phones in switched off/flight mode during the lecture!)

About the Speaker

Prof. Dipankar Das Sarma *is a scientist and structural chemist at Indian Institute of Science, Bangalore, popularly known for his researches in the fields of solid state chemistry, spectroscopy, condensed matter physics, materials science, and nanoscience. He is a former MLS Chair Professor of physics and chairman of the Centre for Advanced Materials and the GAST Professor of Uppsala University, Sweden, A recipient of TWAS Physics Prize and the UNESCO Biennial Javed Husain Prize. Prof. Sarma was also honored by the Council for Scientific and Industrial Research (CSIR), Government of India, in 1994, with the Shanti Swarup Bhatnagar Prize for Science and Technology. In 1990, he received the medal of excellence from the Materials Research Society of India. He received the C. V. Raman Award in 2004, the Hari Om Ashram Trust Award and the Alumnus Award for Excellence in Award by the University Grants Commission, G. D. Birla received FICCI Award in 2006, the National Research Research from the Indian Institute of Science in 2005. He honored with the Knight of "The Order of the Star of Award in 2009 and H. K. Firodia Award in 2013. He was of Science and Technology at Uppsala University in Italy" in 2014, and an Honorary Doctorate from the Faculty Science Academy and delivered INSA lectures Dr. 2015. Prof. Sarma is an elected Fellow of the Indian National Mitra Memorial Award Lecture and A. V. Rama Rao Jagdish Shankar Memorial Award Lecture, Professor R. P. Rangadhama Rao Memorial Lecture in 2008, among Foundation Lecture in 2006, and the INSA Kotcherlakota others. He is an elected Fellow of the American Physical Society, the Academy of Sciences for the Developing World, the National Academy of Sciences, India, and the Indian Academy of Sciences and holds the fellowship of the Asia-Pacific Academy of Materials (APAM). He is also a J. C. Bose National Fellow and Homi Bhabha Fellow.*

Prof. Sarma was born on 15 September 1955 in Kolkata, West Bengal. He did integrated master degree course in Physics from the Indian Institute of Technology, Kanpur in 1977 and enrolled for research at the Indian Institute of Science, (IISc) Bengaluru from where he obtained his PhD in 1982 under the supervision of renowned solid state chemist Prof. C. N. R. Rao. He worked as a research associate at IISc for one year (1982–83), then moved to Forschungszentrum Jülich, (Jülich Research Centre) Germany as a guest scientist in 1984 and returned to IISc as a lecturer in 1986. He became the assistant professor in 1989, associate professor in 1993 and a professor in 1999. He remains a professor and the chairman of the solid state and structural chemistry unit at the institution. He also served as a visiting professor at the University of Tokyo (2001–02) and at the Istituto di Struttura della Materia, CNR at their Rome and Trieste centres in 2002.

Prof. Sarma has carried out extensive research on strongly correlated electron systems and nanocrystals in the quantum confinement regime. He is known for discovering the existence of a new phase in solid state materials established through high-energy spectroscopies and theory. His researches have been documented in the form of several articles published in various peer reviewed journals. Google Scholar has listed 521 of Sarma's articles and has accorded him an h-index of 38 (since 2010) and an i10-index of 128 (since 2010) and his articles have been cited over 13300 times. He holds many patents and Justia Patents has an online record of 16 of them. Prof. Sarma is credited with the establishment of the Centre for Advanced Materials, a centre for advanced research on nanomaterials, smart materials, functional polymers, spintronics, strongly correlated electron systems, biomaterials and biology-inspired materials at the Indian Association for the Cultivation of Science.

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