



INVITATION



SIR J C BOSE TRUST Acharya Bhaban Science Heritage Gallery & Research Centre PRESENTS

Distinguished Lecture
***“Sensory Biology in the natural world -
A tribute to Acharya Jagadish Chandra Bose.”***



Speaker

Prof. Ajoy Kumar Ray

**Padma Shri, Former Director, IEST Shibpur
Former Professor IIT, Kharagpur and Director, JISIAR, Kolkata**

Welcome Address & Preamble to the Lecture

Prof. Parul Chakrabarti, Secretary & Trustee,
Sir J C Bose Trust & Coordinator of ABSHGRC

Felicitation and Introduction of the Speaker

Prof. Partha Pratim Majumder, National Science Chair,
Govt. of India, Trustee, Sir J C Bose.

Distinguished Lecture

Prof. Ajoy Kumar Ray

Interactive Session

Vote of Thanks

Venue: N R Sen Auditorium, Rajabazar Science College, 92 APC Road, Kolkata 700009

Date and Time: September 9, Tuesday, 02:30 pm - 04:30 pm

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Prof. Ajoy Kumar Ray has just joined JIS Institute of Advanced Studies and Research as its Director, after his retirement as Professor of Electronics and Communication Engineering at IIT Kharagpur. He was on lien from IIT Kharagpur joined Bengal Engineering and Science University, Shibpur as its Vice Chancellor with effect from 01.03.2009, on lien. Prior to this assignment he was a Professor of Electronics and Electrical Communication Engineering and Head, School of Medical Science and Technology at IIT Kharagpur. Prof. Ray had his Bachelor's degree from Bengal Engineering College, Shibpur, followed by M.Tech and Ph.D from Electronics and Electrical Communication Engineering Department of IIT Kharagpur. He joined IIT Kharagpur as a Faculty in 1980.

Prof. Ray has successfully completed twenty research projects and several consultancy projects, sponsored by several agencies like Defence Research & Development Organization, Department of Atomic Energy, Department of Science and Technology, INDAL and so on. He was the Principal Investigator of research projects, sponsored by Intel Corporation during 1997 – 2004. During the course of this research project, he was the co inventor of six US patents jointly with Intel Corporation. Prof. Ray is the Chief Investigator of a Texas Instruments sponsored research project, being conducted at the School of Medical Science and Technology at IIT Kharagpur. As a part of this project, he, along with other team members have filed five USA patents jointly with Texas Instruments. Prof. Ray was associated with the University of Southampton as Senior Research Fellow during 1989-90 and led the research group on 'Image and Video Processing' of Avisere Inc., USA during 2004-2005.

He has published more than 160 research papers in International journals and Conferences and has authored five books published by International Publishing Houses, such as John Wiley, Tata McGraw Hill, Prentice Hall of India and Taylor and Francies Publication, including one in Chinese.

In addition, under his leadership, his group in the School of Medical Science and Technology has initiated a number of research projects on 'Molecular Imaging' and Image Processing, Medical Instrumentation, Early detection of oral, breast and cervical cancer, Coronary Artery disease detection, Epidemiological Studies and Bio Informatics, all of which are of national importance. Prof. Ray is the Fellow and Member of many professional bodies and is involved with a large number of Universities in their academic bodies. He has been serving a number of national committees on Higher Technical Education. He has been associated with Nehru Museum of Science and Technology, IIT Kharagpur as Secretary and Chairman from 1991 – 2006.

“Sensory Biology in the natural world - A tribute to Acharya Jagadish Chandra Bose.”

Abstract of the lecture

Acharya Jagadish Chandra Bose has been hailed as the first scientist in our globe who has demonstrated the generation, propagation and a novel Galena based detector for the reception of electromagnetic waves in the microwave range. This paved the way to one of the most spectacular engineering in the history of mankind - Wireless Communication.

In the beginning of the twentieth century, Acharya Bose turned his attention to another extremely important area of plant science.

In this talk I will present how understanding the sensory and perception environment of diverse living creatures and animals are extremely important to preserve the evolutionary journey in our nature. I will also present some of the spectacular technologies that have used the human understanding of the sensory biology of species.