



75
Azadi Ka
Amrit Mahotsav

105th Foundation Day

82nd

ACHARYA J.C. BOSE MEMORIAL LECTURE

30th November, 2021



BOSE INSTITUTE
KOLKATA



Science and Society. What does Bose Institute owe them?

PROF. GAUTAM R. DESIRAJU

Honorary Professor
Solid State and Structural Chemistry Unit
Indian Institute of Science
Bangalore

Abstract

Science and society are intimately linked and Acharya J. C. Bose's life and work exemplify this close relationship. Good science can only be done if the societal framework is conducive to carrying it out. The history of the 20th century contains innumerable examples of situations throughout the world where a particular pattern of society distorted and deformed the activities of scientists. On the other hand, scientists have the heavy responsibility towards facilitating the condition and quality of life of the eight billion people in the world. Scientists have rarely had the luxury of living in ivory towers and the best science has always emerged in response to urgent and pressing social and commercial needs. The founder of this institute lived in a tumultuous time when we were in the last stages of shedding our colonial vestige. Society was changing rapidly, even churning, and there was always the creative tension between the home and the world. India today a century later continues to be in a state of societal flux and we are still concerned about ourselves and our place in the wide world outside. Bose Institute therefore faces an extraordinary situation and is, as such, fully expected to play its part in the reawakening of the country of its founder.



BOSE INSTITUTE
KOLKATA

As a part of the Celebration of the
75th Year of Independence of India
Azadi Ka Amrit Mahotsav

Bose Institute Observes

105TH FOUNDATION DAY

Director
and
Staff Members of Bose Institute
request the pleasure of your company at the

82ND ACHARYA J. C. BOSE MEMORIAL LECTURE

on

30th November, 2021 at 3.00 p.m.
(through virtual mode)*

Speaker

PROF. GAUTAM R. DESIRAJU

Honorary Professor
Solid State and Structural Chemistry Unit
Indian Institute of Science
Bangalore

Titled

"Science and Society. What does Bose Institute owe them?"

Prof. Sabyasachi Sarkar

Honorary Professor
Nanoscience and Synthetic Leaf Laboratory at Downing Hall
IEST, Shibpur, Howrah
and

Former Senior Professor and Head, Chemistry
IIT-Kanpur

has kindly consented to preside over the programme.

Prof. (Dr.) Uday Bandyopadhyay

Director
Bose Institute

***Virtual link to the programme: www.jcbose.ac.in/jcbose**

"The true laboratory is the mind, where behind illusions we uncover the laws of truth".

- Sir Jagadis Chandra Bose



About the Speaker



Prof. Gautam R. Desiraju (born, Madras, 1952; B.Sc., University of Bombay, 1972; Ph.D., University of Illinois at Urbana-Champaign, 1976) was in the University of Hyderabad between 1979 and 2009, when he moved to the Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore, where he remains today. His 1989 book *Crystal Engineering* and 1995 review in *Angewandte Chemie* on supramolecular synthons redefined several aspects of the subject of crystal engineering, and in particular led to a greater in-depth study of weak hydrogen bonds, also brought out in his 1999 book on *The Weak Hydrogen Bond in Structural Chemistry and Biology*. He is now on the editorial or advisory boards of *IUCrJ*, *Angewandte Chemie*, *Journal of the American Chemical Society* and *Chemical Communications*.

He is one of the highest cited Indian scientists with 568 research papers, 61184 citations and an h-index of 95. He has won international awards such as the Alexander von Humboldt Forschungspreis and the TWAS award in Chemistry. He is a Past President of the International Union of Crystallography. He is a recipient of honorary doctorate degrees of the Universidad Nacional de Córdoba Argentina and the Rayalaseema University, Kurnool. He was awarded the Acharya P. C. Ray Medal of the University of Calcutta for Science and Technology and the ISA Medal of Science from the University of Bologna.



**BOSE INSTITUTE
KOLKATA**

OBSERVANCE OF
105TH FOUNDATION DAY
AND

82ND ACHARYA J. C. BOSE MEMORIAL LECTURE

PROGRAMME

30th November, 2021

HOMAGE

12:00 - 13:30 ... Garlanding the busts of Acharya J. C. Bose at Unified Academic Campus, Centenary Campus, Madhyamgram Campus, Falta Campus, Shyamnagar Campus, and Darjeeling Campus
Floral Offerings at the Samadhi, Main Campus

MAIN PROGRAMME

(Virtual mode: www.jcbose.ac.in/jcbose)

15:00 - 15:05 ... Invocation
15:05 - 15:20 ... Welcome Address & Director's Report by
Prof. (Dr.) Uday Bandyopadhyay,
Director, Bose Institute
15:20 - 15:25 ... Introduction of the Speaker by the Chairman
15:25 - 16:10 ... 82nd Acharya J. C. Bose Memorial Lecture by
Prof. Gautam R. Desiraju
16:10 - 16:15 ... Declaration of the 2021 Winners of the
Sir Nilratan Sircar Prize,
Prof. B. B. Biswas Outstanding Student Award and
Prof. Shyamadas Chatterjee Outstanding Award
16:15 - 16:25 ... Chairman's Address by **Prof. Sabyasachi Sarkar**
16:25 - 16:30 ... Vote of Thanks by the Chairman of the Foundation
Day Committee

NATIONAL ANTHEM



Past Lecturers

Rabindra Nath Tagore	:	1938	Prof. Niharranjan Ray	:	1980
Prof. M.N. Saha	:	1939	Prof. Sukumar Sen	:	1981
Prof. S. S. Bhatnagar	:	1940	Prof. B.K. Bachhawat	:	1982
Dr. J. C. Ghosh	:	1941	Swami Lokeshwarananda	:	1983
Sir Cyril S. Fox	:	1943	Prof. N.S. Subbarao	:	1984
Dr. K.P. Biswas	:	1944	Prof. R.C. Majumder	:	1985
Dr. P. Jarija	:	1945	Prof. C.N.R. Rao	:	1986
Dr. S.K. Mitra	:	1946	Prof. S. Chandrasekhar	:	1987
Dr. J. N. Mukherjee	:	1947	Dr. A.P. Mitra	:	1988
Prof. K.N. Bhal	:	1948	Prof. O. Siddiqi	:	1989
Dr. K.C. Mehta	:	1949	Dr. S. R. Ramachandran	:	1990
Dr. S.K. Banerji	:	1950	Prof. P.N. Tandon	:	1991
Dr. P.C. Mahalanobis	:	1951	Prof. H. Sarat Chandra	:	1992
Prof. R.C. Majumder	:	1952	Dr. U.R. Rao	:	1993
Dr. N.K. Bose	:	1953	Dr. S.Z. Qasim	:	1994
Prof. S.N. Bose	:	1954	Dr. P.K. Iyenger	:	1995
Dr. S.I. Hora	:	1955	Dr. G. Padmanaban	:	1996
Dr. A.C. Ukil	:	1956	Prof. V. Ramalingaswami	:	1997
Dr. D.N. Wadia	:	1957	Prof. N.K. Ganguly	:	1998
Dr. S. Radhakrishnan	:	1958	Dr. R.A. Mashelkar	:	1999
Sir Jhansir Gandhi	:	1959	Prof. P. Balaram	:	2000
Dr. V.R. Khanolkar	:	1960	Prof. Ramanath Kowsik	:	2001
Dr. B.C. Guha	:	1961	Dr. Pushpa M. Bhargava	:	2002
Dr. D.N. Ramachandran	:	1962	Prof. M. S. Valiathan	:	2003
Dr. S. Bhagavantan	:	1963	Prof. Asok Sen	:	2004
Shri Asoke Mehta	:	1964	Prof. Rajesh Kochhar	:	2005
Prof. P. Maheshwari	:	1965	Prof. V. S. Ramamurthy	:	2006
Dr. Atma Ram	:	1966	Swami Jitatananda	:	2007
Acamedician A.I. Oparin	:	1967	Prof. F. P. Marconi	:	2008
Dr. B.D. Nag Chowdhuri	:	1968	Prof. J. N. Mohanty	:	2009
Dr. Homi N. Seethna	:	1969	Prof. André Bêteille	:	2010
Dr. P.R. Ray	:	1970	Swami Atmapriyananda	:	2011
Dr. N.K. Bose	:	1971	Shri Gopal Krishna Gandhi	:	2012
Prof. S. Swaminathan	:	1972	Professor Mushirul Hasan	:	2013
Dr. A. Srinivasan	:	1973	Dr. Srikumar Banerjee	:	2014
Dr. A. Ramachandran	:	1974	Dr. T. Ramasami	:	2015
Dr. B. Mukherjee	:	1975	Prof. Raghavendra Gadagkar	:	2016
Prof. G.P. Talwar	:	1976	Prof. Ada Yonath	:	2017
Dr. Raja Ramanna	:	1977	Prof. T.V. Ramakrishnan	:	2018
Prof. (Mrs.) A. Chatterjee	:	1978	Prof. Subhash Kak	:	2019
Prof. S.K. Mukherjee	:	1979			