

CEBS FOUNDATION DAY LECTURE

Great Discoveries in Radio Astronomy:
Key Qs. today



After a brief introduction to Radio Astronomy and its uniqueness in probing the Universe, the speaker will describe some of the great discoveries that have been made by radio astronomers, such as Radio Galaxies and Quasars that have indicated presence of massive Black Holes at their centre, Pulsars associated with Neutron Stars, Microwave Background Radiation that provides support to the Big Bang Model, etc. He will then describe the principles of a radio telescope and of the Giant Metrewave Radio Telescope (GMRT) that has been built by NCRA-TIFR 80 kms. north of Pune. The GMRT is the largest radio telescope in the world operating in the band of about 130 MHz to 1430 MHz. Many interesting results and discoveries have been made by scientists using the GMRT. GMRT is being used by scientists from India and more than 22 countries. He will also describe some of the key questions today about the Universe.

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Saturday, 16 September
at 1700 hrs

J.N. Marshall Auditorium
University of Mumbai
Vidyanagari, Kalina Campus

Prof. G. Swarup was born in Thakurdwara, U.P., in 1929. He obtained his masters from Allahabad University in 1950, and Ph.D. from the Stanford University in U.S.A. in 1961 and joined TIFR as an Associate Professor in 1963. He retired in 1994 as Professor of Eminence. He was Project Director of the GMRT, which is the world's largest radio telescope working at longer wavelengths. It has been designed fully indigenously for studying origin and evolution of the galaxies and the Universe.

With 125 publications and also patents to his credit, Prof. G. Swarup has been awarded the SS Bhatnagar Award, Padma Shri, Meghnad Saha Medal, CV Raman Medal, William Hershel Medal of the Royal Astronomical Society, Grote Reber Award, Lifetime Achievement Medal by the Prime Minister of India 2008 and other awards by organizations in India, USA, USSR, Italy, and Iran.

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