

Open Talk

19th November, 2019

3:30 PM

Fermion

SPEAKER

Professor Mukunda P Das

Department of Theoretical Physics, RSPE
The Australian National University, Canberra

TITLE OF THE TALK

**Surprises, Puzzles and Ongoing Discoveries on
Superconductivity in Condensed Matter Sciences**

ABSTRACT

Superconductivity is an unanticipated phenomenon and its over hundred years of history is a fascinating subject in physical science. The fact that certain materials below a critical temperature lose their electrical resistance, exhibit a persistent current without decay for a long period and repel a magnet, remained a miracle until a microscopic explanation was found in 1957. In this pedagogic talk I shall present a brief overview of the important landmarks and discuss major recent advances in this fundamental, stimulating and at the same time a difficult area of research. The talk would be of great interest to young researchers as well as to specialists of quantum science.

HOST FACULTY

Professor Ranjan Chaudhury

Department of Condensed Matter Physics & Material Sciences
S. N. Bose National Centre for Basic Sciences