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SUPERCONDUCTIVITY: THE FIRST 113 YEARS

Professor Stephen Blundell
Professor of Physics
University of Oxford

8:00 pm on Wednesday, 9th October 2024
In the Studio Theatre of the Lichfield Garrick



Superconductivity, the flow of electrical current without resistance in certain materials at temperatures near absolute zero, is one of the greatest discoveries of 20th century physics. Professor Blundell will outline the fascinating history of how superconductivity was discovered, and describe the race to understand its many mysterious and counter-intuitive phenomena. He will try to describe some of the theories that have been developed to explain it, and how they have influenced other areas of science, including the Higgs boson of particle physics and ideas about the early Universe. The talk will discuss the many strange phenomena observed in superconducting materials and the latest developments in high-temperature superconductivity, as well as the potential of superconductivity to revolutionize physics and technology in the future.

Stephen Blundell is Professor of Physics in Oxford University, and works in the Department of Physics, based in the Oxford's Clarendon Laboratory. He is also a Professorial Fellow of Mansfield College, Oxford. In addition to various textbooks he is the author of 'Superconductivity: A Very Short Introduction' published by Oxford University Press. His research is concerned with using muon-spin rotation and other magnetic techniques to study a range of organic and inorganic materials, particularly those showing interesting magnetic or superconducting properties.

For further information, please see our website at www.LSES.org.uk
Students and Members Free.

Visitors £8.00. Tickets are not issued in advance, please pay at the door.
Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.
This lecture is expected to finish by 9.30 pm.