JAGADISH CHANDRA BOSE: THE PHYSICIST WHO WAS FORGOTTEN

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This paper touches upon the exposure Jagadish Chandra had with the leaders of science in Cambridge, his joining Presidency College, Calcutta ,his initiation and researches as a physicist, before he switched over to become one of the leading Plant electro-physiologists.

Contrary to popular belief, the objective of Bose was to establish experimentally Maxwell's theory of Electromagnetic wave propagation for short waves rather than explore the commercial aspects of wireless signal transmission. A cursory glance is made at the history of electromagnetism that led to Maxwell's Electromagnetic theory.

Jagadish Chandra's extraordinary intuition and skill in instrumentation carried out in the most primitive and ill equipped laboratory conditions, led to the production of equipment some of which is still used in modern communication. In this attempt, he turned out to be the first person to produce, transmit and receive millimeter waves that are used for much of today's mass communication. Unknown to most, he anticipated the first semiconductor, the seed of today's computer and electronic revolution.

Caught in the transition of classical to modern Physics he decided to change track and was forgotten as a physicist that he was, only to be remembered sixty years later to have been the first one to produce millimeter waves and anticipate semiconductors.