



## J C Bose: A Satyagrahi Scientist

### Why in News?

Recently, the Ministry of Culture has organized an **international conference on the contributions of J C Bose: A Satyagrahi Scientist**” on his 164<sup>th</sup> birth anniversary.

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### Who was Jagdish Chandra Bose?

#### ▪ About:

- Born on 30<sup>th</sup> November, 1858 to Bama Sundari Bose and Bhagawan Chandra, Bengal.
- He was a **Plant Physiologist and physicist** who invented the crescograph, a device for measuring the growth of plants. He for the first time demonstrated that plants have feelings.

#### ▪ Education:

- He earned a **BSc from University College London**, which was connected with the University of London in 1883, and a BA (Natural Sciences Tripos) from the University of Cambridge in 1884.

#### ▪ Scientific Contribution:

- Acharya Jagadish Chandra Bose was a biologist, physicist, botanist and an early writer of science fiction.
- Bose discovered **wireless communication and was named the Father of Radio Science** by the **Institute of Electrical and Electronics Engineering**.
- He was responsible for the **expansion of experimental science in India**.
- Bose is **considered the father of Bengali science fiction**. A crater on the moon has been named in his honour.
- He founded **Bose Institute**, a premier research institute of India and also one of its oldest.

Established in 1917, the Institute was the **first interdisciplinary research centre in Asia**. He served as the Director of Bose Institute from its inception until his death.

- To facilitate his research, he constructed **automatic recorders capable of registering extremely slight movements**, these instruments produced some striking results, such as quivering of injured plants, which Bose interpreted as a power of feeling in plants.

▪ **Books:**

- His books include **Response in the Living and Non-Living (1902)** and **The Nervous Mechanism of Plants (1926)**.

▪ **Death:**

- He died on 23<sup>th</sup> November 1937 in Giridih, Bihar.

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