

## Perovskite-based nonvolatile memory

Chair: Dr. Masakazu Aono (MANA Director-General)

## **Prof. J. Georg Bednorz**

## (1987 Nobel Prize Winner, IBM Fellow)

J. Georg Bednorz, along with his colleague, K. Alexander Mueller, was awarded the Nobel Prize in Physics in 1987 for his discovery of high-temperature superconductivity in a new class of materials. Drs. Bednorz and Mueller startled the world by reporting superconductivity in a layered, ceramic material at a thenrecord-high temperature -- 33 degrees above absolute zero, or 0 Kelvin (roughly -460 degrees Fahrenheit). Their discovery set off an avalanche of research worldwide into related materials that yielded dozens of new superconductors, eventually reaching a transition temperature of 135 Kelvin. Today, his activities as an IBM Fellow concentrate on the development of complex oxide compounds with novel crystal structures and their specific modification for possible implementation in microelectronics.

## Venue: 4F, Large Seminar Room, Collaborative Research Bldg. Date: Oct 7<sup>th</sup> Wednesday Time: <u>14:00-15:00</u> NAMIKI Sife

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