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# Electron Microscope Extends Our Eyes to the Microworld of Matter

**Abstract** In this talk tracing back to the discovery of electron, the birth of electron microscope, the milestone in developing of electron microscopy, and the modern electron microscopy, etc, to help us better understanding the microworld of matter.

**About speaker** Zhu Jing, (1938..10.10-) a material scientist and one of the pioneers in analytical electron microscopy in China. She was born in Shanghai and graduated from Physics Department of Fudan University in 1962, and elected as the Member of the Chinese Academy of Sciences in 1995 and as the Fellow of the TWAS (the academy of sciences for the developing world) in 2007. She is a prof. in School of MSE, Tsinghua University, director of BNCEM (Beijing National Center for Electron Microscopy) and the Member of University Council, Tsinghua University. She was a faculty visiting associate professor in Department of Astronomy and Physics, Arizona State University (ASU), U.S. during 1984.9-1985.4 and a faculty-research associate in Center For Solid State Science, ASU during 1980.10-1982.9. Her research focuses on relationship between structure and properties in solid. She proposed a rational heat treatment system and alloying principle for successful development of maraging steel that has been used as the material of the centrifugal machine for uranium in China. She investigated an individual planar fault in crystal by coherent electron diffraction. She studies in deeply understanding the size dependence of properties in nano-materials.

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212