



FIRST INTERNATIONAL NANOTECHNOLOGY CONFERENCE ON COMMUNICATION AND COOPERATION

Abstract

Developments and Future Expectations of Nanotechnology

Nanotechnology is the key technology of the Industrial Revolution in the 21st century and has been contributing to the industrial developments in IT and electronics fields, environmental and energy fields, and medical and biotechnology fields.

In November 2002, Japan Business Federation put forward an “n-Plan 2002 - Industrial Fields to be Strongly Empowered by Nanotechnology” and selected twelve important industrial fields with focused investments: Network devices, storage devices, optical devices and systems, and next-generation semiconductor devices to realize a comfortable ubiquitous network society; diagnosis and testing systems and nano-medical treatment services to realize a healthy and longevity society; fuel cells, nano catalysts, and new structural materials to realize an environmentally-friendly society; fundamental industrial fields of nano measurement, nano carbon, and micro- and nano-systems.

In the presentation, I will discuss present status and future expectations of nanotechnology, including measures toward further R&D and industrialization, societal implication, and proposals for state nanotechnology strategies.