



SECOND INTERNATIONAL NANOTECHNOLOGY CONFERENCE ON COMMUNICATIONS AND COOPERATION

Abstract

International Network on Nano/Bio Probes

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Advances over the last decade in probing behavior at atomic and molecular length scales have been dramatic. Optical, electrical, and magnetic probes are yielding information about local properties and dynamic behavior, as well as structure, at unprecedented length scales. These advances have enabled both new scientific discovery and technological development in electronics and information handling, bio medicine, physiology, and beyond. At this juncture the community faces a tremendous opportunity for the next level of critical advances by integrating multiple probes. In order to facilitate international collaboration and coordinate synergistic activities that could move the field forward, the Nano/Bio Interface Center has nucleated an International Network on Nano/Bio Probes. The exciting scientific challenges and the International Network will be summarized.