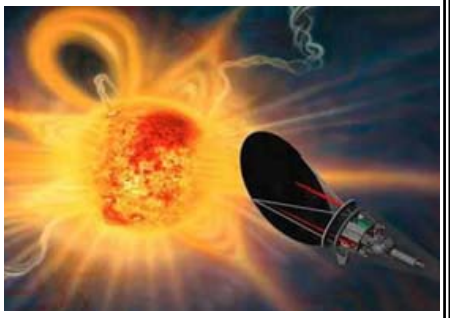
DISTINGUISHED LECTURER SERIES

VCU
MECHANICAL ENGINEERING

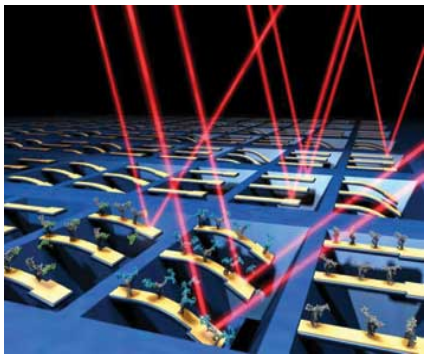
Wave-Top Tour Through the Emerging Technologies and Their Potential Applications and Implications



Dennis Bushnell
Chief Scientist, NASA
11 December 2006
12:00–1:00 pm
Room 106
Engineering Building

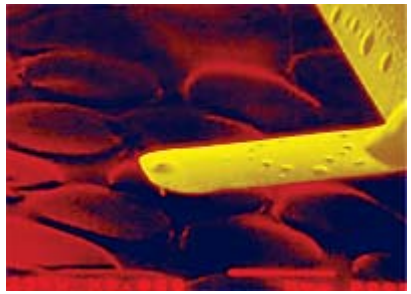
ABSTRACT

The talk considers the individual and combinational developmental trends and potential impacts of IT, Bio, Nano, Energetics and Quantum Technologies. These are altering, in real-time, economics, lifestyles, and the very nature of the human species. Their combinational effects upon employment, the environment/energy, education and social/societal interactions are projected to be massive and game-changing. Beyond the current post Industrial Age appears to loom the "Virtual Age" exemplified by tele-everything and robotic-everything including design and manufacturing. A solution is proffered to the emerging U.S. "competitiveness" issue.



BIO

Dennis M. Bushnell is currently the Chief Scientist at NASA Langley Research Center. He is a member of the National Academy of Engineering and a fellow of ASME, AIAA and Royal Aeronautical Society. Among Bushnell's many awards are the AIAA's Sperry award, Fluid and Plasma Dynamics awards, and Dryden Lectureship, Royal Aeronautical Society's Lanchester, Swire and Wilber and Orville Wright Lectures, ICAS' Guggenheim Lecture, Israel's von Kármán Lecture, USAF/NASP's Gene Zara Award, NASA's Exceptional Scientific Achievement and Outstanding Leadership Medals and Distinguished Research Scientist Award, ST Presidential Rank Award, nine NASA Special Achievement and ten Group Achievement Awards, University of Connecticut Outstanding Engineering Alumni, Academy of Engineers' Pi Tau Sigma and Hamilton Awards, and University of Virginia's Engineering Achievement Award.



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