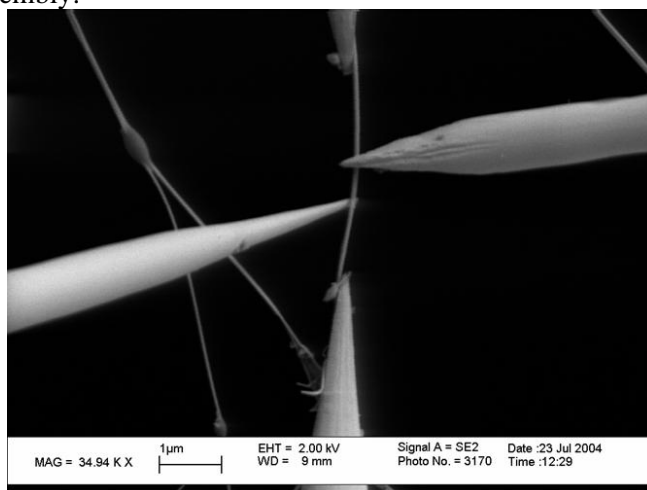


NanoProbing 1D nanostructures Electrically, Mechanically and Biologically

Speaker: **Dr Lerwen LIU**, Zyvex Corporation , USA
Venue: Blk EA, #06-03, Faculty of Engineering
Date: 29th June 2006 (Thursday)
Time: 2.00pm – 3.00pm

Abstract:

Zyvex (www.zyvex.com) is the world first molecular nanotechnology company with a vision of developing adaptable, affordable, molecularly precise manufacturing. Zyvex is the leading nanotechnology company active in cutting edge R & D and commercialization. Zyvex focuses on developing platform technologies in the areas of Structures (MEMS based), Tools (Nanomanipulators, Microgrippers), and Materials (CNT based); targeting market sectors including semiconductor & Electronics, Aerospace & Defence, and Medical & Healthcare. In this talk, we will outline Zyvex's main R & D effort and its NanoTools that are capable of flexible 3D manipulation of Nanostructures enabling simple and novel manipulation and characterization (both electrical and mechanical) of 1D nanostructures (including CNT, nanowires) in the SEM, FIB and optical Microscope. We further demonstrate the novel nanoprobng (with probe tip size smaller than 50nm) on integrated circuits down to the 45nm node and our capability of building complex micro- and nanosystems via 3D assembly.



Biography:

Dr Lerwen Liu (lerwen@zyvex.com) is the Asia-based Business Development Consultant of Zyvex Corporation (USA). Dr Liu supports Zyvex CEO and executives on Zyvex global business strategy and partnership particularly in the Asia Pacific (AP) region. She liaisons with government agencies, R & D organizations and industries in the AP region and promotes Zyvex technologies, products and partnerships in both R & D and business.

Dr Liu has PhD in physics specializing in semiconductor nanostructures, and has conducted research work in Australia, Japan, USA and Italy. She has been working in nanotechnology consulting business for over 7 years. She has extensive experience in consulting and networking in Nanotechnology worldwide and particularly in Asia Pacific specializing in science and technology information intelligence, regional/organizational competitiveness assessment, technology trends monitoring, event organization, database building, and regional network management. She is constantly conducting site visits in government funding agencies, R & D institutions, industry and business organizations worldwide and acquiring insights on policy, infrastructure, research and technology competitiveness and trends.

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