Booming Nanotechnology at Harvard University

Date:
Friday, February 27, 2015 - 12:00pm
Location:
Room L2D2 (Auditorium behind Eng. Bldg. 1)
12:30 p.m. (Refreshments served at 12:00 pm)

Speaker: Jiangdong Deng, Center for Nanoscale Systems, Harvard University

Abstract: Mainly funded by Harvard University, the main mission of the Center for Nanoscale Systems (CNS) is to provide world-class, centralized facilities and technical support for the largest community of nanoscience and nanotechnology in the world, including Harvard faculty research groups as well as external users from academia and industry in the New England area. In this talk, I will introduce how CNS accomplishes this mission, and fosters the nanotechnology research activities, by purchasing, operating, maintaining and developing large, advanced scientific facilities. CNS bridges multi disciplines of chemistry, physics, engineering, materials science, geology, biology, and medicine in one collaborative environment, and blooms world-class leading-edge research in the area of imaging and nanoscale systems, such as quantum electronics, diamond-based phonics, flexible electronics, et al.

Bio of Dr. Deng: Dr. Deng is the Manager of Nanofabrication Facility and Senior Principal Scientist in the Center for Nanoscale Systems (CNS) at Harvard University, and technical liaison for the National Nanotechnology Infrastructure Network (NNIN). He received a Ph.D. degree in Electrical Engineering from Virginia Tech, as well as another Ph.D. in Condensed Matter Physics from Nankai University. He was a Research Associate Between 1991 and 1997 at NanKai University investigating the principle, techniques and applications of Scanning Probe Microscope (SPM), and from 1997 to 2001 as a Supper Research Assistant and Project Leader in the Center for Photonics Technologies (CPT) at Virginia Tech developing various novel fiber optic sensors and instruments for industrial and military applications sponsored by DOE, NSF, and EPRI. Prior to joining CNS in 2004, JD worked at NanoOpto Corporation as a Senior Engineer and group leader in process development, leading the development of a variety of nano-grating-based optical products using nano-imprint technology. His current research interests include Nanofabrication technologies (especially advanced lithography), photonic devices, MEMs/NEMs device, Scanning Probe Microscopy (SPM)-based nano-characterization technologies.

Contact Prof. Jiming Bao (jbao [at] uh [dot] edu) if you would like to arrange for a time to meet with Dr. Deng.

Center for Integrated Bio and Nano Systems
Houston Chapter of IEEE Nanotechnology Council and Houston Chapter of IEEE Magnetics Society