

## Colloquia

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**SPRING 2016**

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Nanotechnology at Work:  
From Basic Science to Spin-Off Companies

day

**APR 27, 2016 WED**

location

**EE01**

time

**15:40**

### ABSTRACT

Nanotechnology and related research areas have recently seen a tremendous amount of activity and funding. The major reason behind this effort has been the potential markets and economical output that is expected to bring good jobs and wealth to the nations devoting their resources to this area. In this talk, we will first make a critical review of this expectation. We will then review some of the "application oriented" nanotechnology research activities ongoing in Bilkent University Nanotechnology Research Center (NANOTAM). We were able to bring some of this research projects into real lifetime products. The technology generated from these research efforts will soon be commercialized through "AB-MikroNano A.Ş." which is the first technology "spin-off" company in Turkey.

**Ekmel Özbay** received M.S. and Ph. D. degrees from Stanford University in electrical engineering, in 1989 and 1992. He worked as a postdoctoral research associate in Stanford University and he worked as a scientist in Iowa State University. He joined Bilkent University (Ankara, Turkey) in 1995, where he is currently a full professor in Physics Department and Electrical-Electronics Engineering Department. In 2003, he founded Bilkent University Nanotechnology Research Center (NANOTAM) where he leads a research group working on nanophotonics, nanometamaterials, nanoelectronics, nanoplasmonics, nanodevices, photonic crystals, GaN/AlGaIn MOCVD growth, fabrication and characterization of GaN based devices, and high speed optoelectronics. He is the 1997 recipient of the Adolph Lomb Medal of Optical Society of America and 2005 European Union Descartes Science award. He worked as an editor for Nature Scientific Reports, Optics Letters, Photonics and Nanostructures Fundamental Applications, and IEEE Journal of Quantum Electronics journals. He has published 390+ articles in SCI journals. His papers have received 11500+ SCI citations with an SCI h-index of 51. He has given 135+ invited talks in international conferences. He recently became the CEO of a spin-off company: AB-MicroNano Inc.

The Physics Colloquia are designed to address a non-specialist, broad audience and introduce topics of contemporary research through lectures by leading experts. We warmly invite all members of the student body, including undergraduates enrolled in any programme.

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