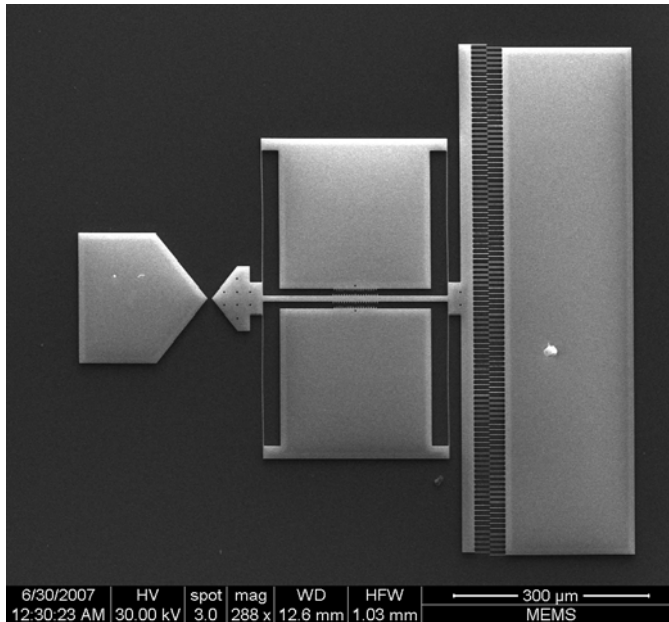


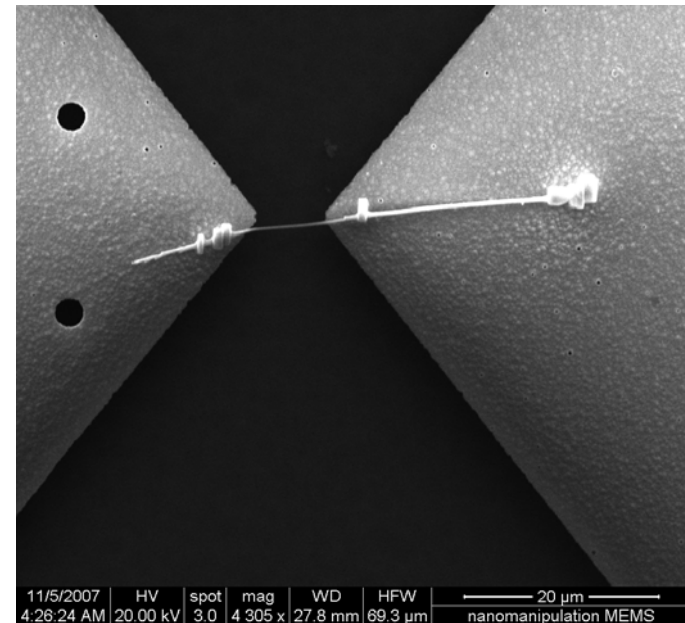
Micro-electro-mechanical Devices for Nano-mechanical Testing

Yogeeswaran Ganesan, Yang Lu, Hao Lu, Jun Lou, MEMS, Rice University
Roberto Ballarini, Civil Engineering, University of Minnesota
NNIN Facility utilized: Nanofabrication Center

- ◆ The goal of this research is to develop a MEMS platform that allows *in situ* quantitative mechanical characterization of 1-D nanostructures, such as metallic nanowires and carbon nanotubes, within an SEM chamber.



MEMS Platform for Tension Testing



Nickel nanowire clamped across MEMS stage using ion induced Pt deposition