Nano-Science Activity at Atomic-scale Surface Science Research Center (ASSRC) in Yonsei University

> Presented by H. W. Yeom 2003. 10. 14

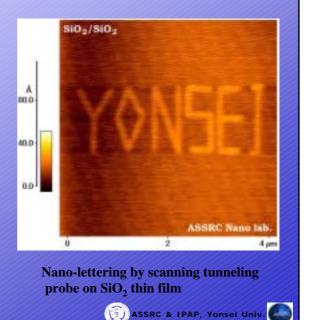
## **Overview of ASSRC**

- Director : Prof. C. N. Whang
- Established in 1995
- Funding Korean Science and Engineering Foundation (through SRC program) and Yonsei University
- Annul budget 12 billion won
- Research groups 15 groups from 8 institutes
- In-house man power 5 professors, 4 Research professors, 8 Post docs

ASSRC & IPAP, Yonsei Univ.

## **Major Research Areas**

- Atomic structures of atomic (nano) -scale structures on surfaces
- Electronic structures of atomic (nano) -scale structures on surfaces
- Fabrication and manipulation of nanoscale structures on surfaces
- Fabrication of nanodevices and transport properties



## **Major Instruments**

- Synchrotron-radiation photoelectron spectroscopy beam line
- Scanning Tunnelling Microscope
- Atomic Force Microscope
- Scanning Electron Microscope
- Ion-Scattering Spectrometer
- Photoemission Electron Microscope

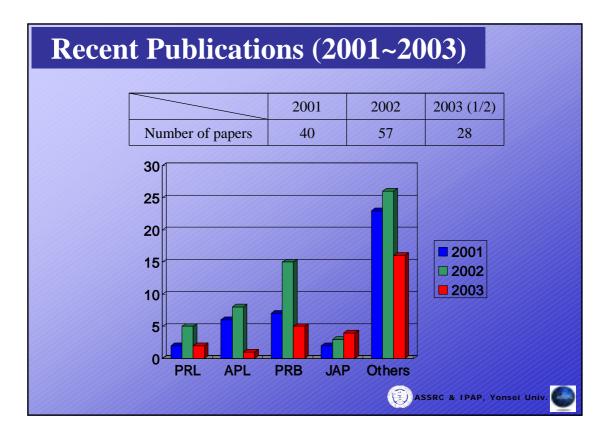


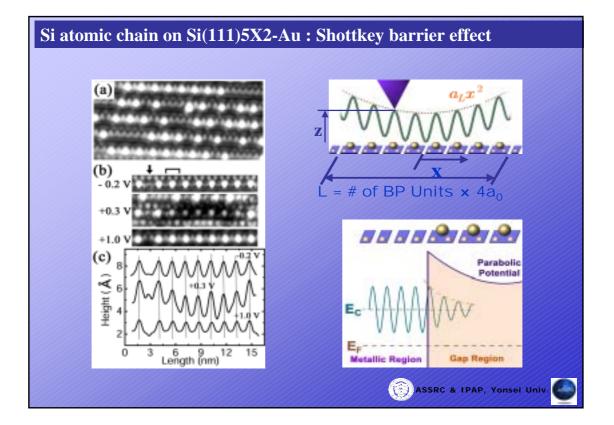
**4 K Scanning Tunneling Microscope** 



Synchrotron-radiation photoelectron spectroscopy system







## Metallic nanowires on Si

