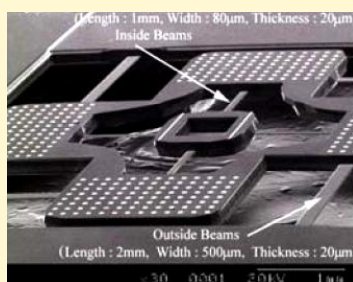


Micro/ Nano Machining and MEMS/ NEMS Sensors and Micro systems

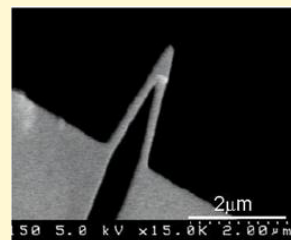
Staff: Totally more than 20 professors studying in MNC
Totally more than 80 researchers using MNC

Research topics in Micro and NanoSystems

- Integration of MEMS and LSI
- Accelerometers and gyroscopes
- Pressure sensors
- Nano mechanical oscillators
- Multi-probe data storage devices
- MEMS nanolithography
- Micro power generators and micro turbines
- RF switches and resonators
- Sensors under harsh environment (SiC)
- Micro mirror scanners and deformable mirrors
- Si nanowire waveguide devices
- Subwavelength gratings and structural colors
- GaN photonic devices
- Piezoelectric energy converters
- SAW sensors and SAW devices
- Surface bio-micro-machining
- On-demand bio-chips
- Bio micro fuel cells
- Active and functional catheters
- 3D LSI integration and optical interconnection
- Artificial retina
- Micro/ Nano robotics



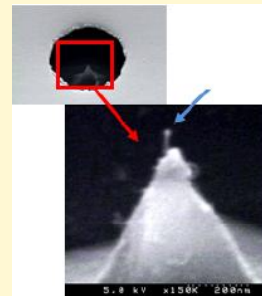
*MEMS accelerometer switch
(Esashi Lab)*



*Nano-mechanical oscillator
(Ono Lab)*



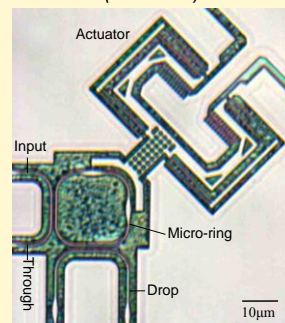
*Optical scanner with deformable
mirror (Hane Lab)*



*CNT emitter with gate
(Ono Lab)*



*Piezoelectric energy converter
(Kuwano Lab)*



*Tunable Si microring filter
(Hane, Kanamori Labs)*



*On-demand Bio chip
(Nishizawa Lab)*



*Ultrasonic catheters
(Haga Lab)*

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