

Joseph Lyding-University of Illinois SPONSORED CENTER

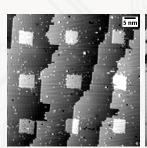


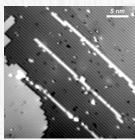


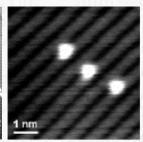
- Scanned probe microscopy and nanofabrication.
- Optimization of carbon nanotube electronics
- High thermal conductivity carbon nanotube structures

http://stmgroup.beckman.illinois.edu/

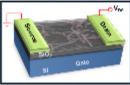




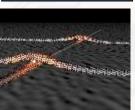




Spin-Off: Deuterium processing now being used by major semiconductor manufacturers to improve chip reliability.



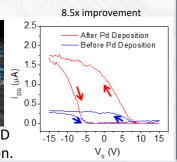
Nanotube FET: performance limited by nanotube-nanotube junction resistance



Current flow heats junctions.



Heat drives local CVD metallization reaction.



High thermal conductivity: Use junction linking process to facilitate heat flow in carbon nanotube fiber bundles.



