

Working Group 1: Historical Context of the Nano-enterprise

Central Premise:

- Anticipating societal and ethical issues of nanotechnologies demands understanding its rich and complex history

Goals:

- Create resources and tools necessary to document emerging research enterprise.
- Explore several key issues central to understanding nanotech's past and current context.

Principal Members

- Patrick McCray (UCSB)
- Mary Ingram-Waters (UCSB)
- Tim Lenoir (Duke University)
- Cyrus Mody (Chemical Heritage Foundation)



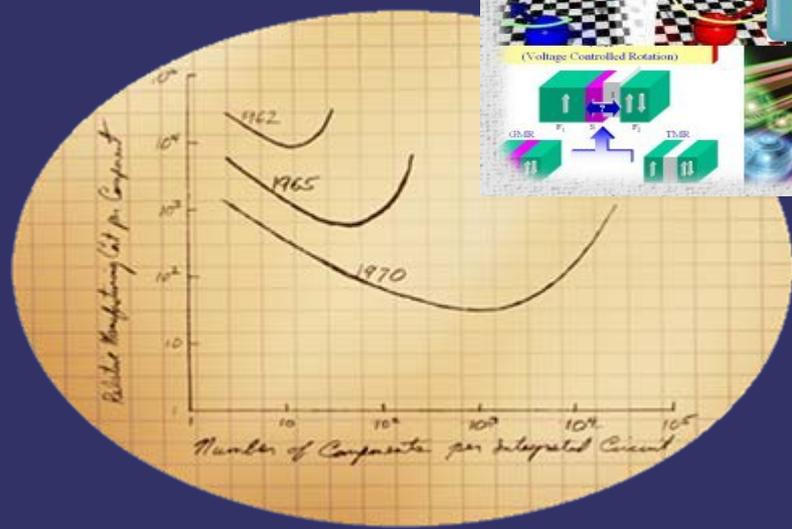
Research Initiatives for Year One

- Spintronics and Nanoelectronics
- Oral History Collection
- Nanotechnology, Futurism, and the Public Imagination
- Nano's "Hidden" Histories

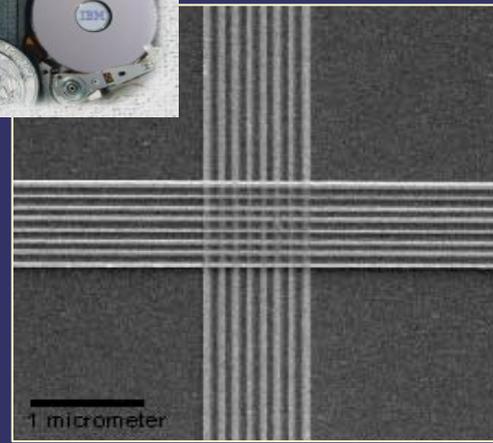
Nanoelectronics as "Over the Horizon" Technology



Spintronics

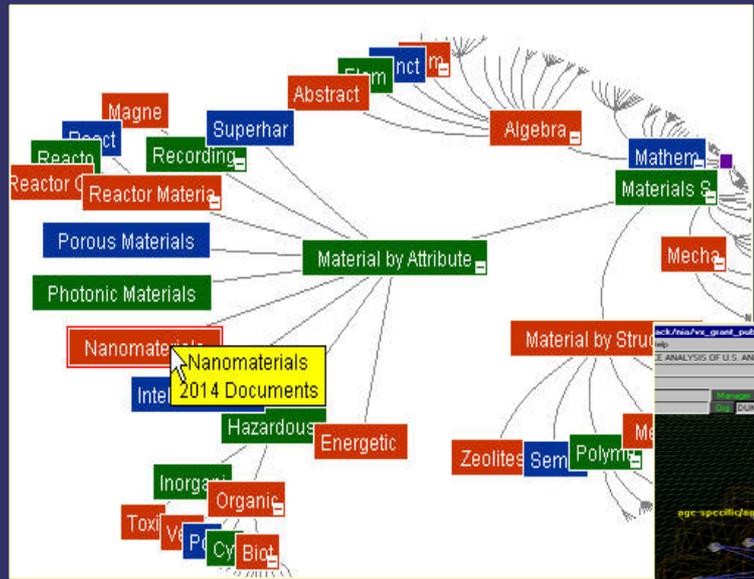


Moore's Law, 1965

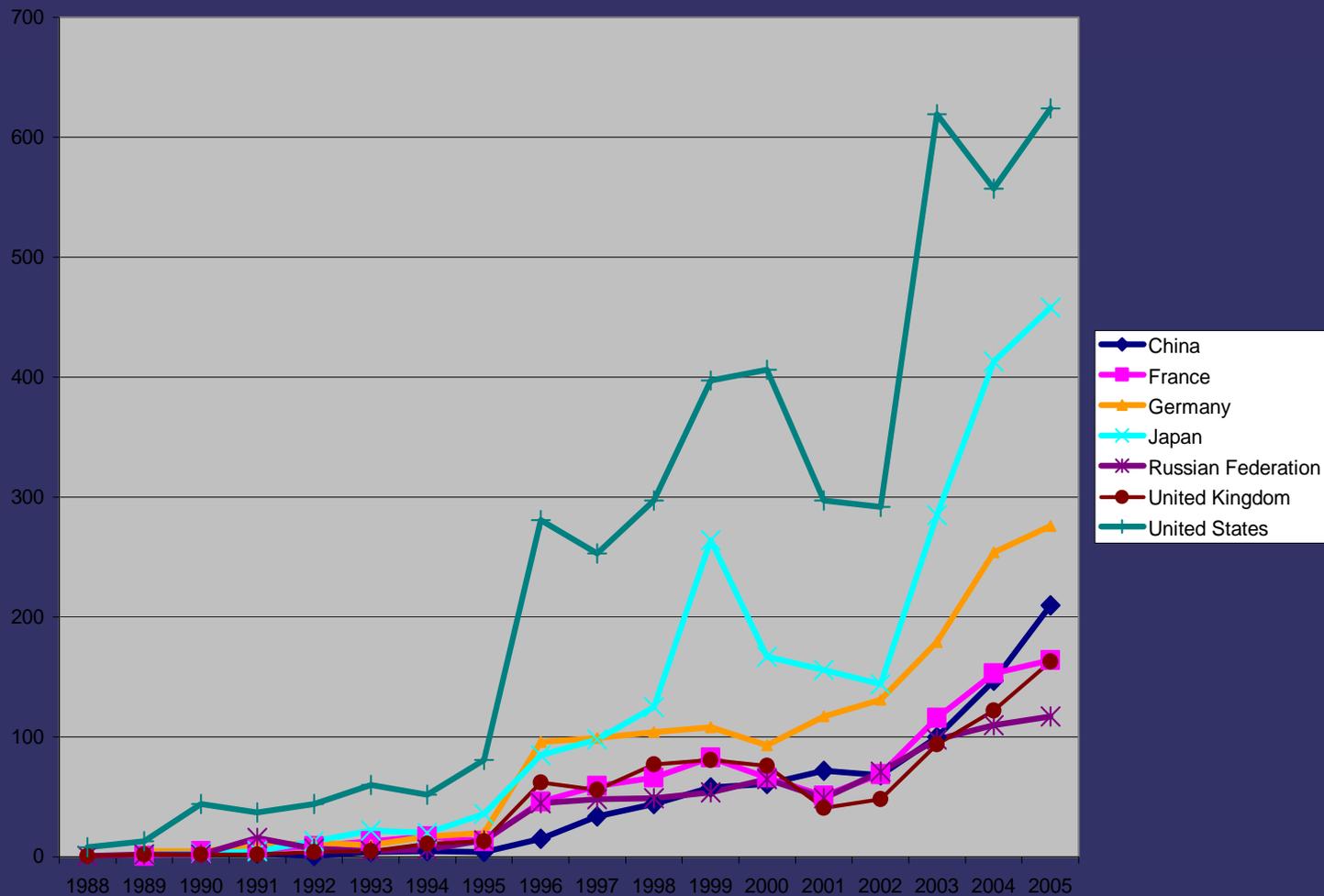


Today's 'near-nano' wires

Data Mapping and Visualization



Ex: Spintronics Publications



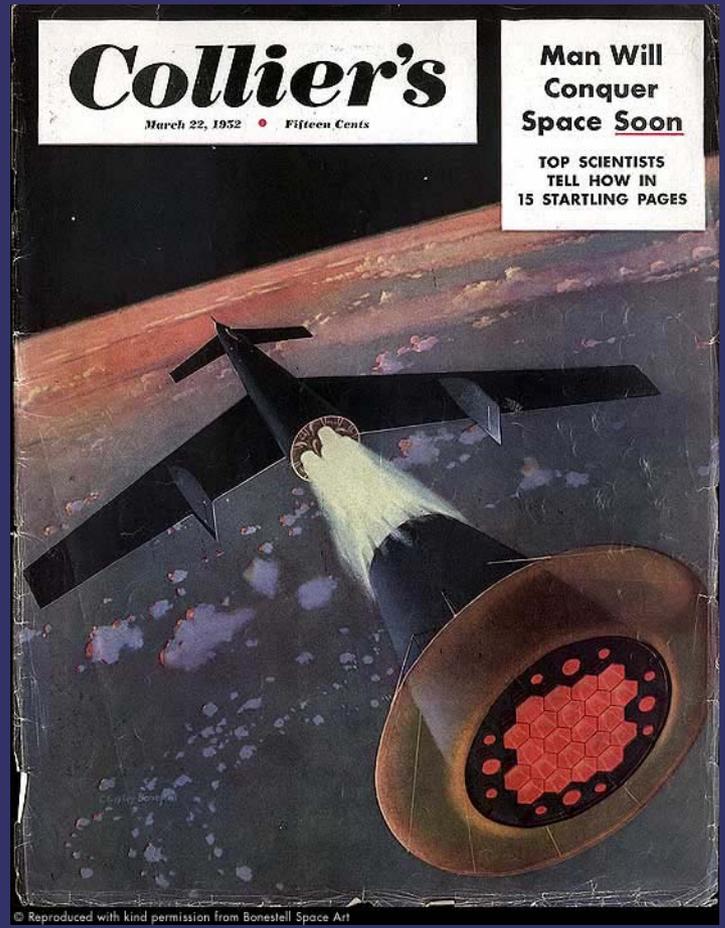
Temporal/Geospatial Distribution of Researchers



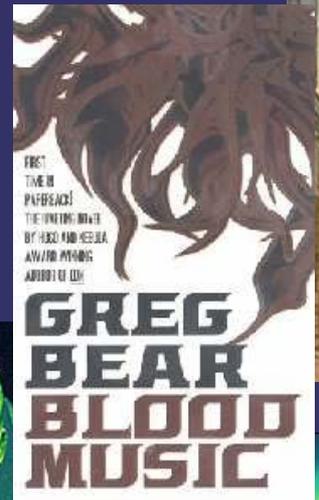
Nanotechnology and Oral History



Nanotechnology and the Public Imagination



C. 1950



TODAY

Nano's Hidden Histories

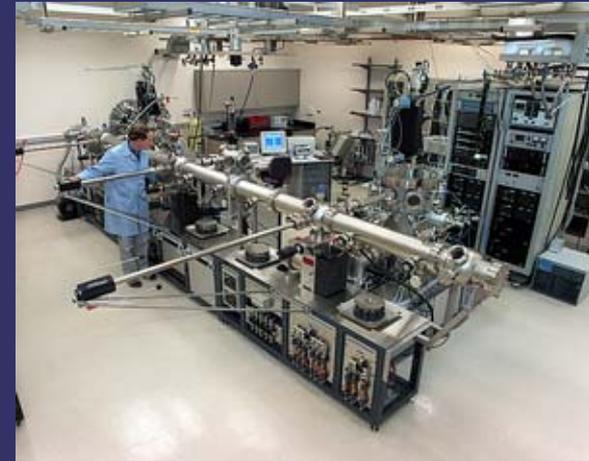
**1973 Nobelist
Leo Esaki**



**1993, AI Cho
receives NMS**



Si-Ge superlattice



Modern MBE machine