

EVELYN L. HU

Professor

Department of Electrical and Computer Engineering , Materials Department
University of California, Santa Barbara, CA 93106

Education

B.A., Physics, Barnard College - 1969, summa cum laude

M.A., Physics, Columbia University - 1971

Ph.D., Physics, Columbia University - 1975

Experience

Dec. 2000 – present

Scientific Co-Director, California Nanosystems Institute

July 2000- June 2001

Director, Institute for Quantum Engineering, Science and Technology (iQUEST), an Organized Research Unit

July 1994 – July 2000

Director, Center for Quantized Electronic Structures (QUEST, an NSF Science and Technology Center)

March 1994 – June 2001

Director, Santa Barbara component of NSF National Nanofabrication Users Network

July 1992 -Aug. 1994

Chair, Department of Electrical and Computer Engineering

1989 - July, 1992

Vice-Chair, Department of Electrical and Computer Engineering

1984- present

Professor, Electrical and Computer Engineering.

1984 - 1987

Associate Director, Center for Robotic Systems in Microelectronics (an NSF Engineering Research Center)

1981 - 1984

Supervisor, VLSI Patterning Processes, AT&T Bell Laboratories.

Generated high resolution optical lithographic and reactive ion etching processes for fabrication of 1-1.5 μ m NMOS and CMOS circuits.

1975 - 1981

Member of Technical Staff, AT&T Bell Laboratories.

Development of submicron fabrication techniques to produce and study nanometer-scale devices.

Over 340 publications and 11 patents in the areas of high resolution fabrication processes, process-material interactions, novel device performance.

Research Focus: High-resolution fabrication of compound semiconductor electronic and optoelectronic devices, candidate structures for the realization of quantum computation schemes, and on novel device structures formed through the heterogeneous integration of materials. Interaction of quantum dots in high Q microdisk and photonic crystal cavities. Interface of organic and inorganic materials for novel electronic and photonic devices.

Honors and Awards

- Named NSF Distinguished Teaching Scholar (2005)
- Co-recipient, Outstanding Faculty Teacher, Dept. of ECE (2005)
- UCSB Faculty Research Lecturer (2005)
- Elected Academia Sinica, Taiwan (2004)
- Elected National Academy of Engineering (2002)
- AAAS Lifetime Mentor Award, 2000
- UCSB Academic Senate Distinguished Teaching Award (1999)
- Fellow of the IEEE (1994); Fellow of the APS (1995); Fellow of the AAAS (1998)
- Honorary Doctor of Engineering, University of Glasgow, June 1995
- Tau Beta Pi Outstanding Faculty Teacher in Dept. of ECE (1989-90)

Current Professional Contributions

- Co-Founder (with Professor Angela Belcher), Cambrios Technologies Corp.
- Reviewing Editor, *Science*; co-Editor, *AIP Virtual Journal of Nanoscale Science & Technology*
- APS Councillor (2004-2007); APS Executive Board (2005-2008)
- NAE Peer Committee (2004- 2007), Chair Section 7 Peer Committee, 2006
- Advisory committee membership:
 - Cornell STC on BioNanotechnology (1999-present)
 - Molecular Foundry (2004-present)
 - Paul Drude Institute (2004-present)
 - Nanoscale Informal Science Education (2005-present)
(NISE) Network
 - NIH Nanomedicine Development Centers (2005-present)
 - Micro- and Nano Science Platform, (2006-present)
ETH Zurich