

STEVEN CHU

Theodore and Francis Geballe Professor of Physics and Applied Physics
Physics Department, Stanford University, Stanford CA 94305-4060

Education:

A.B., Mathematics, University of Rochester, 1970
B.S., Physics, University of Rochester, 1970
Ph.D., Physics, University of California, Berkeley, 1976

Employment:

Postdoctoral Research Fellow, University of California at Berkeley, 1976-1978
Member of Technical Staff, Bell Laboratories, Murray Hill, 1978-1983
Head, Quantum Electronics Research Department, AT&T Bell Laboratories, Holmdel, 1983-1987
Professor of Physics and Applied Physics, Stanford University, 1987-present
Theodore and Frances Geballe Professor of Physics and Applied Physics, 1990
Former Chair of the Physics Dept., Stanford Univ., 1990-1993, 1999-2001

Visiting Lectureships:

Morris Loeb Lecturer, Harvard University, 1988
Special Visitor to JILA, 1989, 1999
Visiting Professor, Collège de France, 1990

Scientific Interests and current areas of research:

Parity non-conservation in atoms
Excitons, energy transfer in solids and Anderson localization
Picosecond spectroscopy
Positronium and muonium spectroscopy
Laser cooling and trapping of atoms, atom interferometry
Polymer physics
Biophysics

Honors:

Stoddard Prize in Mathematics, Univ. of Rochester, 1968
Phi Beta Kappa, 1969
Stoddard Prize in Physics, Univ. of Rochester, 1970
Woodrow Wilson Fellow, 1970
National Science Foundation Predoctoral Fellow, 1970-74
National Science Postdoctoral Fellow, 1977-78
Broida Prize for Laser Spectroscopy, (Am. Phys. Soc.) 1987
Richtmyer Memorial Prize Lecturer (Am. Phys. Soc./Am Assoc. Phys. Teachers) 1990
Member, American Academy of Arts and Sciences, 1992
King Faisal International Prize for Science, 1993
Member, National Academy of Sciences, 1993
Member, Academia Sinica, 1994
Arthur Schawlow Prize for Laser Science, (Am. Phys. Soc.) 1994
William F. Meggers Award for Spectroscopy, (Opt. Soc. of Am.) 1994
Distinguished Traveling Lecturer, Am. Phys. Soc. Division of Laser Science, 1994-96
Humboldt Senior Scientist Award, 1995
Science for Art Prize (Sponsored by LVMH), 1995
Guggenheim Fellowship, 1996
Nobel Prize in Physics, 1997
Member of the American Philosophical Society, 1998
Chinese Academy of Sciences, Foreign Member, 1998

Korean Academy of Sciences and Technology, Foreign member, 1998

Partial List of Professional Service:

Chair, Am. Phys. Soc. Division of Laser Science, 1989-90
Associate Editor, Optics Letters, 1989-96
Member of the NSF Physics Advisory Committee, 1990-93
Member of the NAS Committee on Atomic, Molecular and Optical Physics,
1992-94
Quantum Electronics Representative of the Int. Union of Pure and Applied Scientists,
1993-95
Member, NAS study on "Free Electron Lasers", 1993-94
Member, NAS study on "Optical Science and Engineering", 1995-96
Member, Executive Committee, NAS Board on Physics and Astronomy, 1996-99
Editorial board member, Biophysical Journal, 1998-present
Member, NIH Advisory Committee to the Director, 1999-present

Partial List of Stanford University Service:

Appointments and Promotions Committee, School of Humanities and Sciences,
1989-90, 1995-96
Cabinet Committee on Budget and Strategic Planning, 1990-92
Presidential Search Committee, 1991-92
School of Humanities and Sciences Academic Council, 1993-present
Academic Senate, 1993-94, 1995-98
Provostial Committee on the Recruitment and Retention of Women, 1992-94
Member of Committee on Committees, 1993-94, 1997-98
Executive member of Bio-X planning committee, 1998-present

Other Activities:

Chair of the Physics Dept. Visiting Committee, Ecole Normale Supérieure, 1999
Chair of the Physics Dept. Visiting Committee, Harvard University, 1999
Board of Trustees member, University of Rochester
Member of the Scientific Advisory Board of SEQ, LTD (Biotech company)
Member of the Scientific Advisory Board of Cell Robotics (Biotech company)
Visiting Committee, Physics Department, Harvard University,
1992, 1995
Visiting Committee, Physics Department, Yale University, 1996.