TONY F. HEINZ

Professor of Applied Physics, Photon Science, and, by courtesy, of EE http://heinz.stanford.edu
Stanford University Tel. 650-723-1810
348 Via Pueblo Mall, Stanford, CA 94305 E-mail: tony.heinz@stanford.edu

Education

B.S. Physics (with Distinction), Stanford University, 1978
Ph.D., Physics, University of California, Berkeley, 1982

Professional Experience

Stanford University and SLAC National Accelerator Laboratory:
Professor of Applied Physics, Photon Science, and, by courtesy, of Electrical Eng., Stanford, 2015 -
Associate Laboratory Director for Energy Sciences, SLAC, 2017 - 2022
Director, Chemical Science Division, SLAC, 2015 – 2019
Columbia University:
Professor of Physics and Electrical Engineering, 1995 - 2000, David Rickey Professor, 2001 – 2014
Chair, Dept. of Electrical Engineering, 2003 - 2007
IBM Research Division, T. J. Watson Research Center, Yorktown Heights, NY:
Research Staff, 1983 – 87; Dept. Manager, 1987 – 93; Senior Department Manager, 1993 - 95

Honors

Levine Award for Outstanding Studies in Physics, Stanford University, 1978
National Science Foundation Graduate Fellow, UC Berkeley, 1978 - 81
IBM Graduate Fellow, University of California, Berkeley, 1982 - 83
IBM Outstanding Technical Achievement Award, 1992, and Invention Award, 1994
International Commission for Optics Prize; Ernst Abbe Medal, 1995
Alexander von Humboldt Research Award, Germany, 1996
Great Teacher Award, Columbia University, 2005
Julius Springer Prize for Applied Physics (with Phaedon Avouris), 2008
Frank Isakson Prize, American Physical Society, 2014
Gordon and Betty Moore Foundation EQiPS Investigator, 2014-2019, 2020-2026
Clarivate Citation Laureate in Physics, 2019
William F. Meggers Award, Optical Society of America, 2020
Medard Welch Award, American Vacuum Society, 2021
Arthur L. Schawlow Prize in Laser Science, American Physical Society, 2022
IEEE NTC Pioneer Award in Nanotechnology, 2024
ACS Ahmed Zewail Award in Ultrafast Science and Technology, 2025
Optica Frederick Ives Medal /Jarus Quinn Prize, 2026
ACS Louis E. Brus Award in Nanoscience and Nanotechnology, 2026
Fellow: APS, American Vacuum Society, IEEE, Optica, MRS, AAAS; Member, NAS

Selected Professional Activities

Editor, *Journal of the Optical Society of America B* (*JOSA B*), 1994 - 2000
Chair, Review Panel, NIST Optical Technology Division, Physics Laboratory, 2000-2005
Chair, Division of Laser Science of the American Physical Society, 2001-2
Chair, Quantum Electronics and Laser Science Conference, QELS, 1995
Chair, International Conference on Quantum Electronics, IQEC, 2002
Chair, Board of Editors, Optical Society of America, 2005 - 2009
Chair, Gordon Conference on Ultrafast Dynamics of Cooperative Phenomena, 2010
Scientific Director, NSF Nanoscale Science & Engineering Center at Columbia, 2006 – 2012
Scientific Director, DOE Energy Frontier Research Center at Columbia, EFRC, 2009 – 2014
President, Optical Society of America, 2012
Chair, Scientific Advisory Board, Center for Integrated Nanotechnology, CINT, Sandia-LLNL, 2011-2016
Chair, Subcommittee on Optics and Photonics, NSF Dir. of Math and Physical Science, 2013- 2015
Founding Editor, North America, *2D Materials* journal 2014-2017; Editorial Board 2018 -
Co-Chair, DOE Roundtable on Frontiers of Ultrafast X-ray Science, 2016-17
Scientific Advisory Boards: Institute of Science and Technology, Austria, 2013-, Fritz-Haber Institute, Berlin, 2014-2023; Max-Born Institute, Berlin, 2014-2023; and many national programs

Publications: >340 papers in refereed journals; >129,000 citations; >8,700 in 2025; H-index 142 (Google scholar) Clarivate highly cited author, 2015 – 25; Citation Laureate in Physics, 2019 (1 of 3)

Patents: 20 US patents issued