TONY F. HEINZ

Professor of Applied Physics and Photon Science
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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 and Photon Science, Stanford University, 2015 -
Director, Chemical Science Division, 2015 – 2019, SLAC
Associate Laboratory Director for Energy Sciences, 2017 -, SLAC
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
Clarivate Citation Laureate in Physics, 2019
Fellow: American Physical Society, American Vacuum Society, Optical Society of America

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
Director, Adriatico Symposium on Laser Applications in Science, ICTP 2000
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
Editor, North America, *2D Materials* journal published by the Institute of Physics, 2014-2017
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-; Max-Born Institute, Berlin, 2014-; and many national programs

Research Areas

Spectroscopy and properties of nanoscale materials and interfaces; spectroscopic techniques

Publications: >280 papers in refereed journals; > 61,000 total citations; >9,200 citations in 2018
H-index 111 (Google scholar)
Thomson-Reuters 2015, 2016, 2017, 2018 highly cited author in physics,

Patents: 21 US patents issued