

HERSCHEL A. RABITZ

Charles Phelps Smyth Professor of Chemistry
Princeton University

Education:

- B.S. in Chemistry, University of California, Berkeley, 1966
- Ph.D. in Chemical Physics (Roy Gordon, Advisor) Harvard University, 1970
- Post-doctoral Associate (Richard Berstein, Advisor) University of Wisconsin, 1970-1971

Academic Experience:

- Assistant Professor of Chemistry, Princeton University, 1971 - 1976
- Affiliated Member and Acting Director (1981), Program in Applied and Computational Mathematics, Princeton University, 1974 - Present
- Associate Professor of Chemistry, Princeton University, 1976 - 1980
- Professor of Chemistry, Princeton University, 1980 - Present
- Chairman, Department of Chemistry, Princeton University, July, 1993 - June, 1996
- Andlinger Center for Energy and the Environment, 2013

Honors:

- Alfred P. Sloan Fellow, 1975 - 1979
- Camille and Henry Dreyfus Teacher-Scholar, 1974 - 1979
- Alexander von Humboldt Award, 2000
- Charles Phelps Smyth Professor of Chemistry, 2000
- Willis E. Lamb Medal for Laser Science and Quantum Optics, 2003
- Fellow of the American Association for the Advancement of Science 2004
- Genetic and Evolutionary Computation Gold Award 2005
- Alexander von Humboldt Award, 2014
- Adjunct Professor, Swinburne University (Melbourne, AU), February 2018 – February 2019
- Visiting Scholar, University of New South Wales, 2019 - 2021

Research Interests:

Professor Rabitz's research interests lie at the interface of chemistry, physics, and engineering, with principal areas of focus comprising molecular dynamics, biophysical chemistry, chemical kinetics, and optical interactions with matter. The latter topic involves the control of atoms and molecules including qubits interacting with an environment. An overriding theme throughout his research is the emphasis on molecular-scale systems analysis. Professor Rabitz has over 1000 publications in the general area of chemical physics.