

# Curriculum Vitae and Publications of William A. Eaton

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## EDUCATION

University of Pennsylvania, B.A. with Honors in Chemistry, 1959; Free University of Berlin, Germany, as the first Willy Brandt - University of Pennsylvania exchange student; graduate study in biophysics, 1959-1960.  
University of Pennsylvania School of Medicine, M.D., 1964  
Medical Research Council Laboratory of Molecular Biology, Cambridge, England, research on protein biosynthesis, Sydney Brenner, supervisor, summer 1962  
University of Pennsylvania, Ph.D. in Molecular Biology, 1967; "Single Crystal Spectra of Ferricytochrome *c* and Ferrimyoglobin Complexes in Polarized Light", Robin M. Hochstrasser, dissertation supervisor

## CURRENT POSITIONS

NIH Distinguished Investigator, 2007 - present  
Chief, Laboratory of Chemical Physics (LCP), National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), 1986 - present.  
Chief, Biophysical Chemistry Section, LCP, NIDDK, NIH, 1979 - present.  
Member, Permanent Scientific Staff, Laboratory of Chemical Physics, National Institute of Diabetes and Digestive and Kidney Diseases, NIDDK (previously National Institute of Arthritis, Metabolism and Digestive Diseases, NIAMDD) (now NIDDK), NIH, 1972 - present.  
Scientific Director, Intramural AIDS Targeted Antiviral Program of the Office of the Director, NIH, 1986 - 2018

## PREVIOUS POSITIONS

Senior Investigator, 2005 - 2007  
Senior Biomedical Research Service, 1998 - 2005  
US Public Health Service Ranks: Medical Director (Captain, 06), 1979-1998; Senior Surgeon, 1972-1978; Surgeon, 1968-1970,  
Senior Staff Fellow, 1970-1972  
Visiting Professor, Department of Biochemistry and Molecular Biology, Harvard University, Cambridge, Massachusetts, Spring Semester, 1976.

## **HONORS AND AWARDS**

Pi Mu Epsilon (National Honorary Mathematics Fraternity) (1957)  
Phi Beta Kappa (1958)  
Willy Brandt Exchange Fellowship (1959-1960)  
Mary Ellis Bell Research Prize of School of Medicine (1962)  
Scholar of the Pennsylvania Plan to Develop Scientists in Medical Research (1964-1967)  
Commendation Medal of the United States Public Health Service (1977)  
Member, American Society for Clinical Investigation (1981)  
Member, Association of American Physicians (1983)  
Medal and Honorary Membership in the Societa' di Medicina e Scienze Naturali di Parma (1987)  
Outstanding Service Medal of the United States Public Health Service (1990)  
Meritorious Service Medal of the United States Public Health Service (1993)  
Hillebrand Prize of the Chemical Society of Washington, D.C. (1997)  
Fellow, American Academy of Arts and Sciences (1997)  
Fellow, American Physical Society (1999)  
Fellow, Biophysical Society (2001)  
Phi Beta Kappa Visiting Scholar (2001-2002)  
Founders Award, Biophysical Society (2006)  
Member, National Academy of Sciences (2006)  
“New Challenges in Protein Science, a Symposium in Honor of William A. Eaton”, University of Parma, Italy (2008)  
Hans Neurath Award, Protein Society (2009)  
Gordon G. Hammes Biochemistry Lectureship, American Chemical Society (2009)  
Humboldt Research Award for Senior Scientists (2009)  
John Scott Medal of the City of Philadelphia (2010)  
Foreign Fellow, Accademia Nazionale dei Lincei, Rome (2011)  
Max Delbruck Prize in Biological Physics, American Physical Society (2011)  
NIH Director's Award (2012)  
2014 Distinguished Graduate Award, Perelman School of Medicine, University of Pennsylvania  
2015 Penn Chemistry Distinguished Alumni Award  
Doctor rerum naturalium honoris causa, Free University Berlin (2016)  
Laurea Honoris Causa, University of Parma (2018)  
Festschrift, *Journal of Physical Chemistry B*, December 13, 2018  
2019 Henry M. Stratton Medal of the American Society of Hematology

## **PROFESSIONAL SOCIETIES**

American Chemical Society  
American Physical Society  
Biophysical Society  
Protein Society  
American Society of Hematology

## **EDITORIAL BOARDS**

*Proceedings of the National Academy of Sciences, USA, 2007 - 2015*

*Chemical Physics Letters, 2002-2004.*

*Protein Engineering Design & Selection. 2000 -*

*Chemical Physics, 1996 -2006*

*Journal of Physical Chemistry, 1994 -1999.*

## **CURRENT RESEARCH INTERESTS**

Sickle cell disease: molecular pathophysiology and drug discovery; Kinetics, dynamics, and mechanisms of protein folding using single molecule spectroscopy, statistical mechanical models, and computer simulations; Theoretical models for allostery in multi-subunit proteins.

## **MAJOR ADMINISTRATIVE RESPONSIBILITIES**

As Chief of the Laboratory of Chemical Physics, administratively responsible for 50 Ph.D. scientists and 10 technical staff.

As Scientific Director of the Intramural AIDS Targeted Antiviral Program, responsible for \$6,500,000 per year budget distributed among 30-40 principal investigators working in the area of molecular, cell, and structural biology of AIDS.

## **SOME OTHER RECENT PROFESSIONAL ACTIVITIES**

International Selection Committee for the Franklin Institute 2012 Bower Award and Prize for Achievement in Science.

External Review Committee for Institute for Physical Science and Technology, University of Maryland, College Park, 2010.

Scientific Advisory Board, Astbury Centre for Structural Molecular Biology, University of Leeds, UK, 2008 -

Member of Board on Physics and Astronomy of the National Research Council, 2002-2005.

National Committee for Biophysics, International Union of Pure and Applied Biophysics, 2002-2005.

Chair, Biophysical Chemistry Subdivision, American Chemical Society, 2001.

Chair, Review Committee, Division of Physical Biosciences, Lawrence Berkeley Laboratory, 1999 and 2000.

Review Committee, Centre for Protein Engineering, Medical Research Council, University of Cambridge, 1999

Review Committee, Department of Structural Biology, Stanford University School of Medicine, 1998.

Adjunct Professor, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, 1994 - 2004.

Adjunct Professor, Department of Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania, 1985 – 1995.