

May 16, 2005

## Curriculum Vitae of Harold A. Scheraga

Born: October 18, 1921, Brooklyn, New York

B.S., 1941, City College of New York

A.M., 1942, Ph.D., 1946, Duke University

American Chemical Society Postdoctoral Fellow, Harvard Medical School, 1946-47

### Cornell University

Instructor of Chemistry	1947-50
Asst. Professor	1950-53
Assoc. Professor	1953-58
Professor	1958-65
Todd Professor	1965-92
Todd Professor Emeritus	1992-
Chairman, Chemistry Dept.	1960-67

### Honors

Guggenheim Fellow and Fulbright Research Scholar

a) Carlsberg Lab., Copenhagen, Denmark, 1956-57

b) Weizmann Institute, Rehovoth, Israel, 1963

National Institutes of Health Special Fellow, Weizmann Institute Rehovoth, Israel, 1970

Fogarty Scholar, National Institutes of Health, 1984, 1986, 1988, 1989, 1990, 1991

ACS Eli Lilly Award in Biochemistry, 1957

Sc.D. (Hon.), Duke University, 1961; University of Rochester, 1988

Elected Fellow, American Association for the Advancement of Science, 1966

Elected Member, National Academy of Sciences, U.S., 1966

Elected Member, American Academy of Arts and Sciences, 1967

Townsend Harris Medal, C.C.N.Y., 1970

Nichols Medal, New York Section, American Chemical Society, 1974

City College Chemistry Alumni Scientific Achievement Award Medal, 1977

ACS Kendall Award in Colloid or Surface Chemistry, 1978

Linderstrøm-Lang Medal, Carlsberg Laboratory, 1983

Kowalski Medal, International Society of Thrombosis and Haemostasis, 1983

Pauling Medal, Puget Sound and Oregon Sections, American Chemical Society, 1985

Elected Honorary Life Member, New York Academy of Sciences, 1985

Elected Honorary Member, Hungarian Biophysical Society, 1989

ACS Mobil Award in Polymer Chemistry, 1990

ACS Repligen Award for Chemistry of Biological Processes, 1990

Doctor Honoris Causa, National University of San Luis, Argentina, 1992

International Society of Quantum Chemistry and Quantum Pharmacology

Award in Theoretical Biology, 1993

Doctor Scientiarum Honoris Causa, Technion, Israel Institute of Technology, 1993

Elected Honorary Member, Society of Polymer Science, Japan, 1995

Stein and Moore Award, Protein Society, 1995

Elected Honorary Member, American Peptide Society, 1996

ACS IBM Award for Computers in Chemical and Pharmaceutical Research, 1997

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ACS Ralph Hirschmann Award in Peptide Chemistry, 1999

Elected Fellow of the Biophysical Society, 1999

G.N. Ramachandran Professor, IIS, Bangalore, India, 2002

Doctor Honoris Causa, University of Gdansk, 2005

### **Professional Experience**

Visiting Lecturer in Summer School in Protein Chemistry, Division of Protein Chemistry,  
Wool Research Laboratories, C.S.I.R.O., Melbourne, Australia, December 1959

Visiting Professor, Biophysics Dept., Weizmann Institute of Science, Rehovoth, Israel, 1972-78

Visiting Professor, Dept. of Polymer Science, Kyoto University, Japan Society for the  
Promotion of Science, August 1977

Visiting Professor, Institute of Applied Mathematics, University of San Luis, Argentina, Mar. 1986

Adjunct Professor, Dept. Biomathematical Sciences, Mt. Sinai School of Medicine, 1991-

Adjunct Professor, Dept. of Molecular Biology, Scripps Research Institute, 1999-

Welch Foundation Lecturer, Texas, 1962

Harvey Lecturer, New York, 1968

Gallagher Lecturer, C.C.N.Y., 1968-69

Invited Main Lecturer, Australian Biochemical Society, May 1971

Invited Main Lecturer, South African Chemical Society, July 1972

Lemieux Lecturer, Ottawa, 1973

IBM Distinguished Invited Lecturer, San Jose, 1973

Hill Lecturer, Duke University, 1976

Distinguished Invited Lecturer, University of Calgary, 1979

Venable Lecturer, University of North Carolina, 1981

Washburn Award Lecturer, University of Nebraska, 1988

John Ferry Lectures, University of Wisconsin, 2003

Joseph Foster Lecture, Purdue, 2003

Woodward Lecture, Harvard, 2003

Karl-Friedrich Bonhoeffer Lecture, Max Planck Institute, Göttingen, 2004

Member, Ithaca Board of Education, 1958-59

Vice-Chairman, Cornell Section, Amer. Chem. Soc., 1954-55; Chairman, 1955-56; Councillor, 1959-62

Member, Executive Comm., Div. Biol. Chem., Am. Chem. Soc., 1966-69

Vice-Chairman, Div. Biol. Chem., Am. Chem. Soc., 1970; Chairman, 1971

Member, Council, Biophys. Soc., 1967-70

Chairman, Program Comm., February 1970 National Meeting of the Biophys.Soc.

Co-Chairman, Gordon Research Conference on Proteins, 1963

Member-at-Large, Council of the Gordon Research Conferences, 1969-71

Member, Advisory Panel in Molecular Biology, National Science Foundation, 1960-62

Member, Biochemistry Training Comm., National Institutes of Health, 1963-65

Member, Research Career Award Comm., NIGMS, National Institutes of Health, 1967-71

Ad Hoc Member, BBCA Study Section, NIH, June 1989

NIH Reviewers Reserve, 1995-99

Member, BBCA Study Section, NIH, 1998-2002

Member, Technical Advisory Panel, Xerox Corp., 1969-71; 1974-79

Member, Board of Governors, Weizmann Institute, Rehovoth, Israel, 1970-1997; Emeritus, 1997-

Consultant to DuPont Co., 1959-69; Merck & Co., 1964-70; Xerox Corp., 1969-84;

Bendix Corp., 1982-83; Monsanto, 1983-93; Polygen Corp., 1984-88;

Marlstone Corp., 1988-89; Ciba-Geigy (Novartis), 1988- ; Marion Merrell Dow

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(Hoechst Marion Roussel; Aventis), 1995-  
Member, Scientific Advisory Board, Geneformatics, 2000- ; IBM Blue Gene Project, 2001- ;  
Buffalo Center of Excellence in Bioinformatics, 2003- .  
Member, Chemistry Dept. Visiting Comm., Brookhaven National Lab., 1972-74; Chairman, 1974  
Member, Commission on Molec. Biophys., Intntl. Union for Pure and Applied Biophys., 1967-69  
Member, Commission on Macromolecular Biophys., Intntl. Union for Pure and  
Applied Biophys., 1969-75; President, 1972-75  
Member Commission on Subcellular and Macromolecular Biophys., Intntl. Union for Pure and  
Applied Biophys., 1975-81  
Representative of IUPAB to Macromolecular Division, IUPAC, 1969-84  
Representative of IUPAC to International Union of Biochemistry, 1970-73  
Representative of Amer. Chem. Soc. on U.S. National Committee for IUPAC, 1974-79  
Co-editor, "Molecular Biology" Series, Academic Press, 1961-1986  
Member, Advisory Board, "Biopolymers", 1963-  
Member, Editorial Advisory Board, "Biochemistry", 1969-74; 1985-  
Member, Editorial Board, "Physiological Chemistry and Physics", 1969-75  
Member, Editorial Board, "Mechanochemistry and Motility", 1970-71  
Correspondent, "PAABS Revista", 1971-73  
Member, Editorial Board, "Thrombosis Research", 1972-76  
Member, Editorial Board, "Biophysical Journal", 1973-75  
Member, Editorial Board, "Macromolecules", 1973-84  
Member, Editorial Board, "Computers and Chemistry", 1974-84  
Member, Editorial Board, "International Journal of Peptide and Protein Research", 1978-1996  
Member, Editorial Board, "Journal of Peptide Research", 1997-  
Member, Editorial Board, "Journal of Computational Chemistry", 1980-  
Member, Editorial Board, "Journal of Protein Chemistry", 1982-2003  
Member, Editorial Board, "Molecular and Cellular Biochemistry", 1983-87  
Member, Editorial Board, "Structural Chemistry", 1989-93  
Member, Editorial Board, "Computational Polymer Science", 1991-1995  
Member, Editorial Board, "Computational and Theoretical Polymer Science", 1996-2000  
Member, Editorial Board, "Journal of Biomolecular NMR", 1991-  
Member, Advisory Board, "Journal of Biomedical Science", 1994-  
Member, Editorial Advisory Board, "Journal of the American Chemical Society", 1995-2000  
Member, Editorial Board "Electronic Journal of Theoretical Chemistry (Structure &  
Interactions)", 1996-97  
Member, Advisory Editorial Board, "International Journal of Quantum Chemistry", 1997-2001.  
Member, International Advisory Committee, "TASK Quarterly", 2001 -  
Member, Editorial Board, "Applied Genomics and Proteomics", 2002 -  
Member, Editorial Board, "Protein Engineering Design & Selection", 2004 -  
Member, Am. Chem. Soc., Am. Soc. Biol. Chem., Biophys. Soc., Am. Assoc. Adv. Sci.,  
Phi Beta Kappa, Sigma Xi, Phi Lambda Upsilon, Alpha Chi Sigma

Author of "Protein Structure", "Theory of Helix-Coil Transitions in Biopolymers", and  
1,150 articles in scientific journals

Research: Physical Chemistry of Proteins and other Macromolecules, Chemistry of Blood  
Clotting and Growth Factors, Structure of Water and Dilute Aqueous Solution.