Richard N. Zare: Curriculum Vitae

(abridged version)

BIOGRAPHICAL INFORMATION

Born: Cleveland, Ohio, November 19, 1939

Married: Susan Shively Zare

Children: Bethany Jean; Bonnie Sue; Rachel Amdur

EDUCATION AND PROFESSIONAL EXPERIENCE

1961	B.A. (Chemistry and Physics), Harvard University
1961-1963	Postgraduate work, University of California at Berkeley
1964	Ph.D. (Chemical Physics), Harvard University, (NSF Predoctoral Fellow)
1964-1965	Postdoctoral Research Associate, Joint Institute for Laboratory Astrophysics
	(JILA), University of Colorado
1965-1966	Assistant Professor, Department of Chemistry, Massachusetts Institute of
	Technology
1966-1968	Assistant Professor, Department of Physics and Astrophysics, University of
	Colorado
1968-1969	Associate Professor, Department of Physics and Astrophysics and Department of
	Chemistry, University of Colorado
1969-1977	Professor, Department of Chemistry, Columbia University
1975-1977	Higgins Professor of Natural Science, Columbia University
1977-	Professor, Department of Chemistry, Stanford University
1980-1985	Shell Distinguished Professor of Chemistry, Stanford University
1982	Christensen Fellow, St. Catherine's College, Oxford University
1984-1986	Stanford University Fellow
1985-	Fellow Adjoint, Joint Institute for Laboratory Astrophysics, University of
	Colorado
1987-	Marguerite Blake Wilbur Professor in Natural Science, Stanford University
1992-	Professor of Physics, Stanford University
2006-	Howard Hughes Medical Institute Professor, Stanford University

HONORS AND AWARDS

2017	Othmer Gold Medal, Chemical Heritage Foundation, Philadelphia, Pennsylvania
2016	Honorary Doctorate, University of Edinburgh, Edinburgh, Scotland
2013	Honorary Doctorate, University of South Florida, Tampa, Florida
2012	The International Science and Technology Cooperation Award of the
	People's Republic of China
2012	The World Academy of Sciences Lecture Medal
2012	The Torbern Bergman Medal, The Swedish Chemical Society, The Analytical
	Division
2011	Honorary Membership into the Japan Society for Analytical Chemistry (JSAC)
2011	Einstein Professorship of the Chinese Academy of Sciences
2011	King Faisal International Prize in Science (shared with George M.

	Whitesides)
2010	R. B. Bernstein Award in Stereodynamics (shared with R.D. Levine)
2010	Honorary Fellow of the Chinese Chemical Society
2010	BBVA Foundation Frontiers of Knowledge Award in the Basic Sciences category
2010	(shared with Michael E. Fisher)
2010	Priestley Medal, American Chemical Society
2010	Theodore William Richards Award, Northeastern Section of the American
	Chemical Societ
2009	Presidential Award for Excellence in Science, Mathematics, and Engineering
	Mentoring (PAESMEM), U.S. Office of Science and Technology Policy
2009	F. A. Cotton Medal for Excellence in Chemical Research, Texas A&M
	University, Department of Chemistry, and Texas A&M Section, American
	Chemical Society
2008	George C. Pimentel Award in Chemical Education, American Chemical
	Society
2007	H. Julian Allen Award, in recognition of co-authorship of "UV Irradiation of
	Polycyclic Aromatic Hydrocarbons in Ices: Production of Alcohols, Quinones,
	and Ethers," Science 283, 1135-1138 (1999), NASA Ames Research Center
2007	Dudley R. Herschbach Award for Excellence in Research in the field of Collision
	Dynamics, Dynamics of Molecular Collisions Meeting, Santa Fe
2007	Honorary Doctorate, Chalmers Institute of Technology, Göteberg, Sweden
2006	Oesper Award, University of Cincinnati and Cincinnati Section of the American
	Chemical Society
2005	Chandler Medal, Department of Chemistry, Columbia University, Pupin Medal
	"for service to the nation", Columbia University School of Engineering
2005	Wolf Prize in Chemistry, Israel
2005	Nichols Medal, New York Section of the American Chemical Society
2004	James Flack Norris Award for Outstanding Achievement in the Teaching of
•000	Chemistry, Northeastern Section of the American Chemical Society
2003	Laurance and Naomi Carpenter Hoagland Prize for Excellence in Undergraduate
2002	Education, Stanford University
2003	Honorary Doctorate, Université P. Sabatier, Toulouse, France
2002	Distinguished Chemist Award, American Chemical Society Sierra Nevada
2002	Section Here and Destants Here a Here and Here a
2002	Honorary Doctorate, Hunan University
2000-2001	California Separation Science Society (CaSSS) Scientific Achievement Award
2000	Madison Marshall Award, American Chemical Society, North Alabama
2001 2001	Honorary Doctorate, D Univ, The University of York, York, UK
2001	Honorary Doctorate, State University of West Georgia Faraday Medal & Lectureship, Royal Society of Chemistry
2001	Charles Lathrop Parsons Award, American Chemical Society, "to recognize
2001	outstanding public service by a member of the American Chemical Society"
	outstanding public service by a member of the American Chemical Society

2000	Nobel Laureate Signature Award for Graduate Education, American Chemical Society
2000	Arthur L. Schawlow Prize in Laser Science, American Physical Society
2000	Doctor of Philosophy, honoris causa, Uppsala University, Uppsala, Sweden
1999	The Welch Award in Chemistry
1999	Doctor of Science, honoris causa, Columbia University
1999	E. Bright Wilson Award in Spectroscopy
1998	Distinguished Service Award, National Science Board
1998	Centennial Medal, Graduate School of Arts and Sciences, Harvard University
1998	G. M. Kosalapoff Award, Auburn Section, American Chemical Society
1998	ACS Award in Analytical Chemistry
1997	Eastern Analytical Symposium Award for Outstanding Achievements in the Field of Analytical Chemistry
1997	Allan V. Cox Medal for Faculty Excellence Fostering Undergraduate Research, Stanford University
1997	NASA Exceptional Scientific Achievement Award
1997	Phi Beta Delta (Honorary Member)
1997	California Scientist of the Year
1996	The Bing Fellowship Award, "to recognize excellence in teaching and commitment to undergraduate education"
1995	ACS Division of Analytical Chemistry Award in Chemical Instrumentation
1993	Dannie-Heineman Preis, Akademie der Wissenschaften zu Göttingen
1993	Doctor of Science, Honorary Degree, Eidgenössische Technische Hochschule Zürich, Switzerland
1993	The Pauling Award, Puget Sound, Oregon and Portland Sections of the American Chemical Society
1993	The Harvey Prize, Technion, Israel Institute of Technology
1993	Doctor of Science, Honorary Degree, Northwestern University
1991	National Academy of Sciences Award in Chemical Sciences, for "pioneering laser-based techniques, deep insights, and seminal contributions, which have influenced every facet of chemical reaction dynamics"
1991	Peter Debye Award in Physical Chemistry, American Chemical Society
1990	Willard Gibbs Medal, Chicago Section, American Chemical Society
1990	Doctor of Science, Honorary Degree, University of Arizona
1990	ISCO Award for Significant Contributions to Instrumentation for
	Biochemical Separations
1987	Dean's Award for Excellence in Teaching, Stanford University
1986	Kirkwood Award Medal, Yale University, New Haven Section of the American
1006	Chemical Society
1986	Michelson-Morley Award, Case Institute of Technology, Case Western Reserve

	University
1985	Irving Langmuir Prize, American Physical Society, for "seminal innovations in
	developing many experimental and theoretical processes"
1985	Harrison Howe Award, Rochester Section, American Chemical Society
1985	Remsen Award, Maryland Section, American Chemical Society
1984	Evans Award, The Ohio State University
1983	National Medal of Science, for "seminal contributions to molecular spectroscopy, photochemistry, and chemical reaction dynamics, especially for his incisive theoretical methods and the development of the experimental technique of laser-induced fluorescence"
1983	Spectroscopy Society of Pittsburgh Award
1981	Earle K. Plyler Prize, American Physical Society
1979	Michael Polanyi Medal, presented at the Faraday Discussions of the Chemistry Society, Birmingham, England
1974	Fresenius Award, given by Phi Lambda Upsilon Honorary Chemical Society to the most outstanding chemist under age 35
1967-1969	Alfred P. Sloan Fellowship
1961	Phi Beta Kappa
MEMBERG	AND GOLD WEITER DO A DDG FIEG
	HIPS, COMMITTEES, BOARDS, ETC.
2012	Member, Advisory Board, School of New Sciences, DGIST, Daegu, South Korea
2012	Honorary Professorship, Shanghai Jiao Tong University (SJTU)
2012	Chair, COSEMPUP (Committee on Science, Engineering, Medicine, and Public Policy) of the National Academy of Sciences, the National Academy of Engineering, and the National Academy of Medicine
2011	Member, Executive Committee, Board of Directors, Wonderfest, Inc.
2010	Chair, International Evaluation Committee, National Science Foundation of China
2009	Fellow, TWAS, Academy of Sciences for the Developing World
2009	Fellow, American Chemical Society
2008	Honorary Fellow, Indian Academy of Sciences
2008	Fellow, Michelle R. Clayman Institute for Gender Research
2008	Fellow, Association for Women in Science
2007	Honorary Fellow, Chemical Research Society of India (CRSI)
2007	Advisor, Camille and Henry Dreyfus Foundation
2006	President, Molecular Frontiers Foundation

	University
2006	Professor of Biomedical Engineering Center, Hunan University
2006-2008	Faculty Affiliate, Michelle R. Clayman Institute for Gender Research
2004	Member of the European Academy of Sciences

Chair, Academic Advisory Committee, Biomedical Engineering Center, Hunan

Senior Presidential Advisor, Hunan University

2006

2006

2004	Foreign Member, Swedish Royal Academy of Engineering Sciences (IVA)
2004	Foreign Member, Chinese Academy of Sciences (CAS)
2004	Honorary Member, The World Jewish Academy of Sciences
2001	Honorary Fellow, Royal Society of Chemistry
1999-2001	Foreign Council Member, Institute for Molecular Science (Japan)
1999	Foreign Member, Royal Society (London)
1997-2000	Chairman, President's National Medal of Science Selection Committee
1997	Fellow, California Council on Science and Technology
1995	Chairman of the Board of Directors, Annual Reviews Inc.
1995-1998	Council Member, National Academy of Sciences
1992-1995	Chair, Commission on Physical Sciences, Mathematics, and Applications, National Research Council
1996-1998	Member, National Science Board, 1992-1998; Chairman, National Science
1990-1990	Board
1992-1995	Vice-Chair of Board of Directors, Annual Reviews, Inc.; Chairman of the Board
	of Directors, Annual Reviews Inc., 1995-
1991	Honorary Fellow, California Academy of Sciences
1991	Fellow, Optical Society of America
1991	Member, American Philosophical Society
1989-1992	Member, Government-University-Industry Research Roundtable of the National
	Academy of Sciences
1987	Chairman, Panel on Basic Science and Technology Centers, National Academy of
	Sciences
1985-1987	Member, Directed Energy Weapons study panel, American Physical Society
	(APS)
1985	Fellow, American Association for the Advancement of Science
1985-1986	Chairman, Division of Chemical Physics (DCP) American Physical Society
	(APS) Vice-Chairman, 1984-1985
1983-1985	Member, Committee on Atomic and Molecular Science (CAMS), National
	Research Council
1982-1985	Editor, Chemical Physics Letters
1980-1982	Chairman, National Science Foundation Advisory Panel (Chemistry
	Division)
1976	Member, National Academy of Sciences
1976	Member, American Academy of Arts and Sciences
1969	Fellow, The American Physical Society
1969	Non-Resident Fellow, Joint Institute of Laboratory Astrophysics
	Member, The Chemical Society (London)