

Richard N. Zare: Curriculum Vitae

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
2006-2010 Howard Hughes Medical Institute Professor, Stanford University

HONORS AND AWARDS

2012 To be presented: 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 (shared with Michael E. Fisher)
2010 Priestley Medal, American Chemical Society
2010 Theodore William Richards Medal, Northeastern Section of the American Chemical Society

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, Göteborg, 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
 Chemistry, Northeastern Section of the American Chemical Society
 2003 Laurance and Naomi Carpenter Hoagland Prize for Excellence in Undergraduate
 Education, Stanford University
 2003 Honorary Doctorate, Université P. Sabatier, Toulouse, France
 2002 Distinguished Chemist Award, American Chemical Society Sierra Nevada
 Section
 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 Honorary Doctorate, D Univ, The University of York, York, UK
 2001 Honorary Doctorate, State University of West Georgia
 2001 Faraday Medal & Lectureship, Royal Society of Chemistry
 2001 Charles Lathrop Parsons Award, American Chemical Society, "to recognize
 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. Kosolapoff 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 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

MEMBERSHIPS, COMMITTEES, BOARDS, ETC.

2011	Member, Executive Committee, Board of Directors, Wonderfest, Inc.
2010	Chair, International Evaluation Committee, National Science Foundation of China
2009	Associate 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
2006	Senior Presidential Advisor, Hunan University
2006	Chair, Academic Advisory Committee, Biomedical Engineering Center, Hunan 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
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
1995-1998	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 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)

Editorial Advisory Boards:

Chemistry World
Honorary Board member of Physical Chemistry and Chemical Physics (PCCP)
Analytical Sciences
Angewandte Chemie
Central European Journal of Chemistry
ChemPhysChem
Chemical Physics
Chemical Physics Letters
Molecular Physics
Journal of Separation Sciences
Chinese Journal of Chromatography

Previously on Board of Editors:

The Journal of Molecular Spectroscopy
Science
Cambridge University Press
Applied Physics
Accounts of Chemical Research
Analytical Chemistry
Chemical & Engineering News
The Journal of Chemical Physics
The Journal of Physical Chemistry
Optics Letters

Scientific Advisory Boards:

Pufendorf Institute, Lund University, Lund, Sweden
International Advisory Board of the State Key Laboratory of Physical Chemistry of Solid Surfaces (PCOSS), Xiamen, China
Hybrid Vigor Institute
Fluidigm
Eksigent, Inc.
Pharmacyclics, Inc.
Prolinx, Inc.
Cepheid, Inc.
Picarro
Wonderfest
Advisory Council for Chemistry at Oxford
Electronic Nobel Museum/Young Scholars Program

Previously on Scientific Advisory Board:

Faraday Transactions

Quanta-Ray

Miller Institute

Affymax, Inc.

IBM

NAMED LECTURESHIPS

- 2012 Izatt-Christensen Lecturer, Brigham Young University
- 2011 Plenary Lecture, Recent Trends in Spectroscopy and Dynamics of Chemical Systems, University of Hyderabad
- 2011 Plenary Lecture, Celebration of Chemistry @ IITK, Indian Institute of Technology Kanpur
- 2011 Plenary Lecture, The Third Asian Spectroscopy Conference, Science and Art Center of Xiamen University
- 2011 Wynne-Jones Memorial Lecture, University of Newcastle
- 2011 Plenary Lecture, IUPAC International Congress on Chemical Sciences, Kyoto, Japan
- 2011 Salomon Bochner Lecture, Scientia, Rice University
- 2011 The Thirtieth Annual Barnett Lectureship, Northeastern, The Barnett Institute of Chemical and Biological Analysis
- 2011 NSF Distinguished Lecture Series in Mathematical and Physical Sciences
- 2011 The 22nd Annual Frontiers in Chemistry Symposium, The Scripps Research Institute
- 2011 Plenary Lecture, Year of Chemistry, Uppsala University
- 2010 Plenary Lecture, 45^o Congreso Mexicano de Química y 29^o Congreso Nacional de Educación Química, Riviera Maya, Quintana Roo, Mexico
- 2010 Wolf Prize Foundation Laureate Lecture, International Symposium “Frontiers in Photon Science”, University of Manchester
- 2010 Oakley R. Vail Lectures, Wake Forest University
- 2010 Plenary Lecture, International Conference on Chemical Education, Taipei, Taiwan
- 2010 Global Vision Lecture, Tsinghua University, Beijing, China
- 2010 Plenary Lecture, 15th General Assembly, Chinese Academy of Sciences, Beijing, China
- 2010 Plenary Lecture, 4th International Symposium on Bioanalysis, Biomedical Engineering and Nanotechnology, Changsha, China
- 2010 C.R. Mueller Memorial Lecture, Purdue University
- 2010 Plenary Lecture, Academia Sinica, Taipei, Taiwan
- 2010 Plenary Lecture, Isranalytica, Tel Aviv, Israel
- 2009 MTSU Distinguished Lecture, Middle Tennessee State University
- 2009 NanQiang Lecture, Xiamen University, Xiamen, China
- 2009 Rajiv Gandhi Science and Technology Lecture, Bangalore, India
- 2009 Dr. Emily Davis and Dr. Homer C. Weed Lecture, Department of Chemistry and Biochemistry, University of Arizona
- 2009 A. R. Gordon Distinguished Lectures Series, University of Toronto, Toronto, Canada
- 2009 Abbott Chemistry Lectures, University of North Dakota
- 2009 Phyllis Johnson Patrick Lecture, Kansas State University
- 2009 Platinum Jubilee Lecture, Indian Academy of Sciences, Bangalore University, Bangalore, India

2008 Robert S. Mulliken Lecture, University of Georgia
 2008 Leland Wilson Endowed Lecture, University of Northern Iowa
 2008 Frank Whitmore Lecture, The Pennsylvania State University
 2008 Helen Murray Free Endowed Lecture, University of Wooster
 2008 Plenary Lecture, 10th National Symposium, Chemical Research Society of India, Bangalore, India
 2007 William A. Chupka Lectureship in Physical and Theoretical Chemistry, Yale University
 2007 The Arnold C. Ott Lectureship in Chemistry, Grand Valley State University
 2007 3M/Ronald A. Mitsch Lecture in Chemistry, Hamline University
 2007 18th Leopold Marcus Lecture, Department of Chemistry, Washington University in St. Louis
 2007 Nobel Laureates 2007 Beijing Forum on Energy and the Environment, Beijing, China
 2007 Plenary Lecture, Ninth Annual Beckman Scholars Symposium, Irvine, California
 2007 Roberts Lecturer, University College, London, UK
 2007 Distinguished Frontiers Speaker, The University of Toledo
 2007 Ritter Memorial Lectures, Miami University of Ohio
 2007 Keynote Speaker, Honors Week Celebration, Kent State University
 2007 Morino Lectures, University of Tokyo and Kyoto University, Japan
 2006 Plenary Speaker, New Zealand Institute of Chemistry Conference, Rotorua, New Zealand
 2006 Sir Neil Waters Distinguished Lectureship, Massey University, Palmerston North, New Zealand
 2006 Michael Faraday Lecture, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India
 2006 Oesper Lecture, University of Cincinnati
 2006 Mission Bay Seminar, University of California at San Francisco
 2006 Cal Giddings Lecture, University of Utah
 2006 Keynote Lecture, Biennial Conference on Chemical Education (BCCE), Purdue University
 2006 Plenary Lecture, International Workshop on Bioanalytical Chemistry and Biomedical Engineering, Hunan University, Changsa, China
 2006 Distinguished Zhang Dayu Lecture, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China
 2006 Lectures in Modern Chemistry, Department of Chemistry, University of British Columbia, Vancouver, BC, Canada
 2006 Spring Colloquium Speaker, Department of Chemistry & Biochemistry, University of Washington
 2006 Frontiers in Chemical Research Lecturer, Texas A & M University
 2006 G. Wilse Robinson Lecturer, Texas Tech University
 2006 Vessman Lecture, Chalmers University, Göteborg, Sweden
 2006 Plenary Speaker, Photon Science Institute Launch, University of Manchester, Manchester, UK
 2006 Purves Lecturer, McGill University, Montreal, Canada
 2005 Plenary Speaker, Federation of Analytical Chemistry and Spectroscopy Societies (FACCS), Quebec City, Canada
 2005 Plenary Speaker, ScotCHEM Launch, Edinburgh, Scotland
 2005 Plenary Speaker, CONNECT 2005, 12th Royal Australian Chemical Institute (RACI) National Convention, Sydney, Australia

2005 PECRUM Lecturer (Perspective on Chemistry Research at the University of Michigan)
 2005 Keynote Speaker, Atlanta Undergraduate Research Alliance (AURA)
 2004 Arthur D. Little Lecturer, MIT
 2004 William E. Mahoney Lecturer, University of Massachusetts Amherst
 2004 Mitchum E. Warren, Jr. Lecturer, Department of Chemistry, Vanderbilt University
 2004 Robert A. Jenkins Memorial Lecturer, Department of Chemistry, University of Wyoming
 2004 Charles Herron Lecturer, Department of Chemistry and Biochemistry, Florida State University
 2004 Noyes Lecturer, Department of Chemistry, University of Oregon
 2003 Plenary Lecturer, Singapore International Chemistry Conference 3, Singapore
 2003 S. Dexter Squibb Distinguished Lecturer, Department of Chemistry, University of North Carolina
 2002 Haberman Lecturer, Department of Chemistry, Marquette University
 2002 Samuel M. McElvain Seminar, Department of Chemistry, University of Wisconsin-Madison
 2002 George Gamow Memorial Lecture, University of Colorado at Boulder
 2001 L. Carroll King Memorial Lectures, The Department of Chemistry, Northwestern University
 2001 R. T. Majors Lecturer, The Department of Chemistry, University of Connecticut
 2001 Flygare Memorial Lecturer, Department of Chemistry, University of Illinois at Urbana-Champaign
 2001 Faraday Lecturer, Royal Society of Chemistry
 2000 Hirschmann Lecturer, Oberlin College
 2000 Carr Lecturer, Department of Chemistry, Coe College
 2000 Manuel G. Menendez Memorial Lecturer, Department of Physics and Astronomy, University of Georgia
 2000 Anderson Lecture, Department of Physics and Astronomy, Denison University
 2000 The Timothy J. O'Leary, S. J. Distinguished Scientist Lecturer, The Science Departments of Gonzaga University
 1999 Lyle Ramsay Dawson Lecturer, Department of Chemistry, University of Kentucky
 1999 S. C. Lind Lecture, East Tennessee Section of the American Chemical Society
 1999 Charles M. Knight Lecturer, Department of Chemistry, The University of Akron
 1999 The O. K. Rice Lecturer, Department of Chemistry, The University of North Carolina at Chapel Hill
 1999 The Lloyd B. Thomas Chemistry Scholars Lecturer, Department of Chemistry, University of Missouri
 1999 The Joe L. Franklin Memorial Lecture, Department of Chemistry, Rice University
 1998 Harry Emmett Gunning Lecturer, Department of Chemistry, University of Alberta
 1998 Clifford C. Hach Lecturer, Department of Chemistry, University of Wyoming
 1998 Barre Lecturer, University of Montreal, Canada
 1998 Kosalopoff Lecturer, Auburn University
 1998 Centenary Lecturer, Royal Society of Chemistry
 1998 Anson L. Clark Memorial Lecturer, University of Texas at Dallas
 1998 Billings Distinguished Lecturer, Montana State University
 1997 Claude Worthington Benedum Foundation Lecturer, West Virginia University
 1997 Robert Maurer Lecture, Department of Physics, University of Arkansas
 1997 Frank G. and Jean M. Chesley Lectureship, Carleton College

1996 Jacob Bigeleisen Endowed Lecture, State University of New York Stony Brook
 1996 Gooch-Stephens Lectureship, Baylor University
 1996 DuPont Distinguished Speaker, Indiana University
 1996 G.B. Kistiakowsky Lecturer, Harvard University
 1996 Alexander M. Cruickshank Lecturer, Gordon Research Conference
 1995 Leroy Eyring Lecturer, Arizona State University
 1995 Velmer Fassel Lecturer, Iowa State University
 1995 Richard C. Lord Lecturer, Massachusetts Institute of Technology
 1995 Fred J. Robbins Lecturer, Pomona College
 1995 Moses Gomberg Lecturer, University of Michigan
 1995 Lemieux Lecturer, University of Ottawa
 1994 Frederic LeRoy Conover Memorial Lecturer, Vanderbilt University
 1994 Raymond Lemieux Lecturer, University of Ottawa
 1994 Peter Smith Lecturer, Duke University
 1993 Paul C. Cross Lecturer, University of Washington
 1993 Linus Pauling Distinguished Lecturer, Oregon State University
 1993 R.B. Bernstein Memorial Lecturer, UCLA
 1993 Nalbandov Lecturer, University of Illinois
 1992 George C. Pimental Lecturer, UC Berkeley
 1992 Robert S. Mulliken Lecturer, University of Chicago
 1991 Arthur D. Little Lecturer, Northeastern University
 1991 J. T. Donald Lecturer, McGill University
 1991 Frederick Kaufman Lecturer, University of Pittsburgh
 1991 Peter A. Leermakers Symposium Lecturer, Wesleyan University
 1991 Russell Marker Lecturer in the Chemical Sciences, Pennsylvania State University
 1991 Ernest H. Swift Lecturer, California Institute of Technology
 1990 Amy/Mellon Lecturer, Purdue University
 1990 Distinguished Scientists Lecturer, Trinity University
 1989 E. K. C. Lee Lecturer, University of California at Irvine
 1989 Geoffrey Frew Fellow, Australian Academy of Sciences
 1989 Max T. Rogers Lecturer, Michigan State University
 1989 Joel Broberg Lecturer in Chemistry, North Dakota State University
 1989 Gustavson Lecturer, University of Denver
 1989 Kennedy Lecturer, Washington University, St. Louis
 1989 John Albert Southern Lecturer, Furman University
 1989 Distinguished Visiting Lecturer, University of Texas at Austin
 1988 Procter and Gamble Lecturer, University of Illinois at Champaign- Urbana
 1988 Xerox Lecturer, Simon Fraser University
 1988 Marvel-Monsanto Lecturer, University of Arizona
 1988 Appleton Lecturer, Brown University
 1987 Walter J. Chute Distinguished Lecturer, Dalhousie University
 1987 Edgar Fahs Smith Lecturer, University of Pennsylvania
 1987 Charles A. McDowell Lecturer in Chemical Physics, University of British Columbia
 1986 Weizmann Memorial Lecturer, Weizmann Institute, Rehovot, Israel
 1986 Kirkwood Lecturer, Yale University, New Haven Section of the American Chemical Society

1986 Friend E. Clark Lecturer, West Virginia University
 1986 Michelson-Morley Lecturer, Case Western Reserve University
 1986 Fritz London Memorial Lecturer, Duke University
 1986 Merck Distinguished Lecturer, Rutgers University
 1986 "Frontiers of Science" Distinguished Visiting Professor, University of Florida
 1985 Camille and Henry Dreyfus Lecturer, Dartmouth College
 1985 Davis Lecturer, University of New Orleans
 1985 Priestley Lecturer, Pennsylvania State University
 1985 Coover Lecturer, Iowa State University
 1985 Francis E. Blacet Lecturer, University of California at Los Angeles
 1984 Plenary Lecturer, Lasers '84
 1984 John E. Willard Lecturer, University of Wisconsin
 1984 Evans Lecturer, Ohio State University
 1984 "Frontiers in Chemical Research" Distinguished Lecturer, Texas A&M University
 1983 Distinguished Scientist Lecturer, University of Arizona
 1983 ICPEAC Plenary Lecturer, XIII International Conference on the Physics of Electronic and Atomic Collisions, Berlin, Germany
 1983 William Draper Harkins Lecturer, University of Chicago
 1983 Falk-Plaut Lecturer, Columbia University
 1982 Dreyfus Scholar in Residence, Hope College
 1982 Venable Lecturer, University of North Carolina
 1982 Albert W. Noyes Lecturer, University of Texas at Austin
 1982 Jeremy Musher Memorial Lecturer, Hebrew University
 1982 Guggenheim Lecturer, Reading University
 1982 Hinschelwood Lecturer, Oxford University
 1981 Research Scholar, Drew University
 1981 University Professor, University of Arkansas
 1981 Honor Lecturer in Chemistry, Arizona State University
 1980 McGregory Lecturer, Colgate College
 1980 Baker Lecturer, Cornell University
 1980 Kolthoff Lecturer, University of Minnesota
 1980 William Pyle Philips Lecturer in Chemistry, Haverford College
 1979 Frank T. Gucker Lecturer in Chemistry, Indiana University
 1979 Peter C. Reilly Lecturer, University of Notre Dame
 1979 Francis Clifford Phillips Lecturer, University of Pittsburgh
 1978 Distinguished Visiting Professor, Michigan State University
 1977 Edward U. Condon Lecturer in Chemical Physics, University of Colorado
 1977 Distinguished University Lecturer, University of Utah
 1977 Sherwin Williams Lecturer, University of Illinois
 1977 Frontiers in Chemistry Lecturer, Wayne State University
 1976 Westinghouse Invited Lecturer in Chemistry, Pittsburgh, Pennsylvania
 1976 FMC Lecturer, Princeton University
 1975 Harold Herborg Nielsen Lecturer, Ohio State University
 1972 Arthur D. Little Visiting Professor, Massachusetts Institute of Technology