

# 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  
2006-2011 Chair, Department of Chemistry, Stanford University

## HONORS AND AWARDS

2017 Othmer Gold Medal, Chemical Heritage Foundation  
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 (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, New Mexico
- 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, New York, New York
- 2005 Pupin Medal "for service to the nation", Columbia University School of Engineering, New York, New York
- 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 Paul 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, New York, New York

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 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.**

- 2014 Member, Board of Trustees Committee, Stanford University
- 2012 Member, Advisory Board, School of New Sciences, DGIST, Daegu, South Korea
- 2012 Honorary Professorship, Shanghai Jiao Tong University (SJTU)
- 2012 Chair, COSEPUP (Committee on Science, Engineering, and Public Policy) of the National Academy of Sciences, the National Academy of Engineering, and the Institute 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

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

1985 Fellow, American Association for the Advancement of Science  
1985-1986 Chairman, Division of Chemical Physics (DCP) American Physical Society 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  
Current Science  
Brainwave  
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**

2019 G. Frederick Smith Memorial Lecture, University of Illinois at Urbana-Champaign, Urbana-Champaign, Illinois  
2018 Inaugural Distinguished Lectureship, Renji Hospital, Shanghai, China  
2018 Plenary Lecture, iChEM, Xiamen University, Xiamen, China  
2018 Plenary Lecture, El Colegio Nacional, Mexico City, Mexico  
2018 Friends of Larry Taylor Lecture, Department of Chemistry, Virginia Tech, Blacksburg, Virginia  
2018 Phi Lambda Upsilon Lecture, Department of Chemistry, Purdue University, West Lafayette, Indiana  
2018 Plenary Lecture, 15th US-Korea Forum on Nanotechnology, Seoul, South Korea  
2018 Plenary Lecture, International Symposium on Bioanalysis, Biomedical Engineering and Nanotechnology, Changsha, China  
2018 Plenary Lecture, PITTCON/Waters Symposium, Orlando, Florida  
2018 Hach Lecture, Colorado State University, Ft. Collins, Colorado  
2018 Phi Lambda Upsilon Lecture, Department of Chemistry, University of Nebraska, Lincoln, Nebraska  
2018 Gislason Lectures for Physical and Analytical Chemistry & Energy Sciences, Department of Chemistry, University of Illinois at Chicago, Chicago, Illinois

- 2017 Distinguished Scientists Lecture, Trinity University, San Antonio, Texas
- 2017 Johnson-Sessler Lecture in Physical Chemistry, Yale University, New Haven, Connecticut
- 2017 C N R Rao Endowment Lecture, Indian Institute of Science (IISc), Bangalore, India
- 2017 G N Ramachandran Lecture, S. N. Bose National Centre for Basic Sciences, Kolkata, India
- 2017 Charusita Memorial Lecture, St. Stephen's College, Delhi, India
- 2017 Plenary Lecture, 20th CRSI National Symposium in Chemistry, Gauhati University, Guwahati, India
- 2015 Brian Bent Memorial Lecture, Columbia University, New York, New York
- 2014 Pegram Lectures, Brookhaven National Laboratory, Upton, New York
- 2014 Fred M. Weissman Lecture in Analytical Chemistry, University of South Carolina, Columbia, South Carolina.
- 2014 Wilhelm Jost Memorial Lectures, Freie Universität, Berlin; Gottfried Wilhelm Leibniz Universität, Hannover; Georg-August-Universität, Göttingen, Germany
- 2014 Centenary Lecture, Indian Institute of Science (IISc), Bangalore, India
- 2014 2014 CV Raman Lecture, Indian Association for the Cultivation of Science (IACS), Kolkata, India
- 2014 Bangalore Science Forum, Bangalore, India
- 2014 Visva-Bharati University, Santiniketan, India
- 2014 Homi Bhabha Lecture, Tata Institute for Fundamental Research (TIFR), Mumbai, India
- 2014 King Abdullah University of Science and Technology (KAUST), Saudi Arabia
- 2013 Heaven and Earth Distinguished Lectures, Nanjing University, China
- 2013 James S. Plant Distinguished Lecture, Hamilton College, Clinton, New York
- 2013 Plenary Lecture, Wu Chien-Shiung Science Summer Camp, Xitou, Taiwan
- 2013 New Biology Distinguished Lecture, DGIST, Daegu, South Korea
- 2013 Jackson Lecture, University of Florida, Gainesville, Florida
- 2013 Martin Lecture, University of South Florida, Tampa, Florida
- 2013 Svedberg Lecture, Uppsala University, Uppsala, Sweden
- 2013 Linnett Visiting Professor Lectureship, Department of Chemistry, University of Cambridge, Cambridge UK
- 2013 Lady Margaret Lecture, Christ's College, University of Cambridge, Cambridge, UK
- 2013 Department of Chemical Engineering, Tsinghua University, Beijing, China
- 2013 Department of Chemistry, Beijing Institute of Technology, Beijing, China



2013 Shipley Lecture, Department of Chemistry, Clarkson University  
2013 Teickmann Lecture, SUNY Buffalo  
2012 ISIC Seminar, Ecole Polytechnique Fédérale de Lausanne, Switzerland  
2012 Jean Dreyfus Boissevain Lecture, Bucknell University, Lewisburg, PA  
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<sup>o</sup> Congreso Mexicano de Química y 29<sup>o</sup> 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, 15<sup>th</sup> 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,  
Chinse 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 Gregory 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