

## **Michael D. Fayer - Curriculum Vitae**

### **Education**

University of California at Berkeley, 1969-1974, Ph.D. - 1974

University of California at Berkeley, 1965-1969 - B. S. 1969  
Undergraduate National Science Foundation Fellow  
Phi Beta Kappa

### **Academic Positions**

David Mulvane Ehram and Edward Curtis Franklin Professor of Chemistry  
Stanford University, 2000 - on

Professor of Chemistry  
Stanford University, 1984 - 2000

Associate Professor of Chemistry  
Stanford University, 1980 - 1984

Assistant Professor of Chemistry  
Stanford University, 1974 - 1980

### **Honors and Affiliations**

National Academy of Sciences (since 2007)  
American Academy of Arts and Sciences (since 1999)  
Arthur L. Schawlow Prize in Laser Science – American Physical Society (2012)  
Ellis R. Lippincott Award – Optical Society of America (2009)  
E. Bright Wilson Award for Spectroscopy – American Chemical Society (2007)  
Earl K. Plyler Prize for Molecular Spectroscopy – American Physical Society (2000)  
Optical Society of America Fellow (since 2009)  
Royal Society of Chemistry Fellow (since 2008)  
Guggenheim Foundation Fellow (1983)  
American Physical Society Fellow (since 1982)  
Camille & Henry Dreyfus Foundation Fellow (1977)  
Alfred P. Sloan Foundation Fellow (1977)  
Stanford University Dean's Award for Distinguished Teaching (1986)  
American Chemical Society  
American Optical Society  
American Physical Society  
Biophysical Society  
Royal Society of Chemistry  
Sigma Xi

William D. Harkins Memorial Lecture, University of Chicago, Chicago, IL, 2013  
Plenary Lecture, American Physical Society and Optical Society of America Meeting,  
Rochester, NY, 2012  
Harry Emmett Gunning Lecturer, University of Alberta, Edmonton, Canada, 2012  
Plenary Lecture, New Directions in Microscopy and Ultrafast Spectroscopy Conference,  
Duke University, Durham, NC, 2009  
Clifford B. Purves Lecturer, McGill University, Montreal, Canada, 2009  
Centenary Lecturer, Indian Institute of Science, Bangalore, India, 2008  
Research Frontiers Lecturer, University of Iowa, 2007  
George W. Raiziss Lecturer, University of Pennsylvania, 2006  
Distinguished Speaker, Joint College Colloquium, University of Arkansas  
at Little Rock, 2004  
Brian Bent Memorial Lecturer, Columbia University, 2004  
Samuel M. McElvain Lecturer, University of Wisconsin at Madison, 2004  
Plenary Lecturer, 13<sup>th</sup> International Conference on Photochemical  
Conversion and Storage of Solar Energy, Snowmass, CO, 2000  
H. Willard Davis Lecturer, University of South Carolina, 1998  
Closs Memorial Lecturer, University of Chicago, 1994  
Moses Gomberg Lecturer, University of Michigan at Ann Arbor, 1992  
William Albert Noyes Lecturer, University of Texas at Austin, 1990  
Arthur D. Little Lecturer, Massachusetts Institute of Technology, 1980  
Professor of Physics, University of Grenoble, Grenoble France, 1982  
Editorial Board, Journal of Chemical Physics, 1987-1990  
Advisory Board, Journal of Physical Chemistry, 1986-1989  
Associate Editor, Journal of Luminescence 1988-present  
Advisory Editor, Chemical Physics, 1985-present  
Advisory Editor, Chemical Physics Letters, 1984-2006  
Chairman Awards Committee, Earl K. Plyler Prize for Molecular Spectroscopy, 2006  
Chairman, 7<sup>th</sup> International Conference on Unconventional Photoactive Systems  
Stanford University, 1995  
Chairman, Fourth International Conference on Dynamical Processes,  
Stanford University, 1983

### **Principal Research Interests**

Dynamics and intermolecular interactions of molecules in liquids, liquids in nanoscopic environments, room temperature ionic organic liquids, supercooled liquids, and liquid crystals. Solute-solvent dynamics and interactions such as complex formation and dissociation and isomerization. Dynamics of proteins and enzymes and the relationship of protein dynamics to structure. Proton transfer in water and other liquids and in nanoscopic systems. Development and application of ultrafast 2D infrared vibrational spectroscopy and other ultrafast infrared optical methods and associated theory as general probes of structural dynamics in complex molecular systems. Development and application of ultrafast visible and UV spectroscopy to the study of dynamics in complex molecular systems. Statistical mechanics theory of molecular systems and experimental observables.