

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

Ellis R. Lippincott Award – Optical Society of America (2009)
National Academy of Sciences (since 2007)
E. Bright Wilson Award for Spectroscopy – American Chemical Society (2007)
Earl K. Plyler Prize for Molecular Spectroscopy – American Physical Society (2000)
American Academy of Arts and Sciences Fellow (since 1999)
Royal Society of Chemistry Fellow (since 2008)
American Physical Society Fellow (since 1982)
Stanford University Dean's Award for Distinguished Teaching, 1986
Guggenheim Foundation Fellow (1983)
Camille & Henry Dreyfus Foundation Fellow (1977)
Alfred P. Sloan Fellow (1977)
American Chemical Society
American Optical Society
American Physical Society
Biophysical Society
Sigma Xi
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, 13th 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-present
Chairman Awards Committee, Earl K. Plyler Prize for Molecular Spectroscopy, 2006
Chairman, 7th 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. Water at protein and membrane surfaces and the role of nanoscopic confinement on protein dynamics. 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.