

Lewis J. Rothberg

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Education

Harvard University, Ph.D., Physics, 1983

University of Rochester, BS, Physics, Magna cum Laude, 1977

Prior Experience

Director, NSF Center for Photoinduced Charge Transfer, University of Rochester

AT&T Bell Laboratories, Murray Hill, NJ, Distinguished Member of Technical Staff

Harvard University, Cambridge, MA, Research Assistant, Division of Applied Sciences; Research Collaborator, Department of Chemistry; Research Assistant, Department of Chemistry; Research Assistant, Department of Physics

University of Rochester, Rochester, NY, Undergraduate Research Assistant, Physics Department

Five Recent Publications:

- (1) Chan, S, Li, Y, Rothberg, L J, Miller, BL, Fauchet, PM, "Nanoscale silicon microcavities for biosensing, *Mat. Sci. Eng. C, Biomimetic and Supramolecular Systems* 2001, 15 (1-2), 277-282, Sp. Iss. SI
- (2) Huser T, Yan M and Rothberg LJ. Single chain spectroscopy of conformational dependence of conjugated polymer photophysics. *Proc. Natl. Acad. Sci. USA* 2000; 97:11187-11191.
- (3) Yan M, Rothberg L, Callender R. Femtosecond dynamics of rhodopsin photochemistry probed by a double pump spectroscopic approach. *J. Phys. Chem B* 2001. 105: 856-859..
- (4) Song S, Rothberg L, Rousseau DL, Boffi A, Chiancone E. Metastable CO binding sites in the photoproduct of a novel cooperative dimeric hemoglobin. *Biophys. J.* 1993; 65:1959-1962.
- (5) Austin RH, Rothberg L. Picosecond Infrared Spectroscopy in Hemoglobin and Myoglobin. *Hemoglobins, Part B, Methods in Enzymology*, Lynn Vandegriff, Editor (1993).

List of Collaborators During The Past 48 Months

Zhenan Bao, Howard Katz, Rebecca Jordan, Ananth Dodabalapur, Richart Slusher, *Lucent Tech., Bell Labs*; Heinz Bassler, *University of Marburg*; Guillermo Bazan, *University of California, Santa Barbara*; Ian Campbell, Darryl Smith, *Los Alamos National Labs*; Esther Conwell, Yongli Gao, Philippe Fauchet, Benjamin Miller, *University of Rochester*; Bing Hsieh, Zoran Popovic, *Xerox Corp.*; Mary Galvin, *University of Delaware*; Andrew Lovinger, *National Science Foundation*; Timothy Miller, *CPS Chemicals, Inc.*; Fotis Papadimitrakopoulos, *University of Connecticut*; Luisa Torsi, *University of Bari*; Ming Yan, *Lawrence Livermore Labs*

List of Ph.D.Students

Rachel Jakubiak (Ph.D., 1999)

Christine Liberatore Cuppoletti (Ph.D., 2002)

Mark Roberson (Ph.D., 1993)