

# Curriculum Vitae

Martin Gruebele

## Personal data:

Born January 10<sup>th</sup>, 1964 (US citizen)

Married to Nancy Makri (2 children, Alexander and Valerie)

## Contact information:

University of Illinois at Urbana-Champaign  
600 South Mathews Avenue Box 5-6  
Urbana, IL 61801

FAX: (217) 244-3186  
email: gruebele@scs.uiuc.edu  
<http://www.scs.uiuc.edu/~mgweb>

## Education:

B.S. Chemistry, University of California at Berkeley (1982-1984)  
Advisors: Ken Sauer (biophysics)  
Wilhelm Maier (organic synthesis)  
Richard J. Saykally (laser spectroscopy)  
Ph.D. Chemistry, University of California at Berkeley (1984-1988)  
Thesis advisor: Richard J. Saykally

## Professional Experience:

Postdoctoral Fellow, California Institute of Technology, Ahmed Zewail group (1989-1992)  
Consultant, Quantum Design Corp. (1991); Lasermetrics (1993-1994)  
Assistant Professor of Chemistry (University of Illinois at Urbana-Champaign, 1992-1998)  
Associate Professor of Chemistry (1998-1999)  
Senior Editor, Journal of Physical Chemistry (ACS, 1998-2005)  
Professor of Chemistry, and of Biophysics and Computational Biology (1999-2000)  
Professor of Chemistry, Physics, and Biophysics and Computational Biology (2000-present)  
Alumni Scholar Professor (2002-2005)  
Director, Center for Biophysics and Computational Biology (2003-present)  
William H. and Janet Lycan Professor (2006-present)

## Research Interests:

Protein and RNA dynamics in solution; computational studies of molecular vibrational energy flow; selective laser chemistry; optically enhanced STM spectroscopy; computational algorithms for quantum control, decoherence and quantum measurement.

## Awards and Honors:

William H. and Janet Lycan Professorship (UIUC, 2006)  
Fellow of the Biophysical Society (Biophysical Society, 2005)  
Friedrich Wilhelm Bessel Research Prize (von Humboldt Foundation, 2005)  
Baker Symposium Lecturer (Cornell University, 2004)  
Associate of the Center for Advanced Studies (UIUC, 2003)  
Fellow of the American Physical Society (APS, 2002)  
National Science Foundation Creativity Extension Award (NSF, 2002)  
Alumni Scholar Professorship (UIUC, 2002)  
Coblentz Award (Coblentz Society, 2000)  
University Scholar (UIUC, 1998)  
Camille and Henry Dreyfus Teacher-Scholar Award (Dreyfus Foundation, 1998)  
Alfred P. Sloan Fellow (Sloan Foundation, 1997)  
Teaching Excellence Award (School of Chemical Sciences, UIUC, 1995)  
Cottrell Scholar Award (Research Corporation, 1995)  
Fellow at the Center for Advanced Studies (UIUC, 1995)  
David and Lucile Packard Fellow (Packard Foundation, 1994)  
National Young Investigator Award (NSF, 1994)  
List of Teachers Ranked Excellent by their Students (UIUC, 1993)

A. O. Beckman Award (UIUC Research Board, 1992)  
Dreyfus New Faculty Award (Dreyfus Foundation, 1992)  
Dow Chemical Graduate Fellow, (Dow Chemical, 1987-1988)  
IBM Predoctoral Fellow, (IBM, 1986-1987)  
University Fellow (U.C. Berkeley, 1984-1986)  
Outstanding TA Award (U. C. Berkeley Dept. of Chemistry, 1985)  
University Certificate of Distinction (U.C. Berkeley, 1984)  
Department Citation for Highest Honors (U.C. Berkeley, 1984)

Membership in Professional Societies:

American Chemical Society, American Physical Society (Fellow), Biophysical Society (Fellow), Sigma Xi, Protein Society, Inter-American Photochemical Society, German Biophysical Society

Professional Activities:

Director: Center for Biophysics and Computational Biology (2003-)  
Senior Editor: Journal of Physical Chemistry (1998-2005)  
Guest Editor: Chemical Physics Special Issue (2004)  
Editorial Boards: Journal of Chemical Physics (1998-2001); Chemical Physics Letters (1999-); Annual Reviews of Physical Chemistry (2001-); Chemical Physics (2001-)  
Session Chair: (excl. conferences (co)organized) ACS Biophysical Chemistry Symposium (1996); "Perspectives in Chemistry", Israel Academy of Sciences, Jerusalem (1998); Int. Symposium on Mol. Spectroscopy 55 Columbus (2000); APS DCP symposium (2002); ICL '02 (2002); APS DCP symposium (2003); US-Japan Protein Physics (Keihanna, 2004); ACS National Meeting Symposium (2004); APS National Meeting Focus Session (2005).  
Summer Schools: on Protein Structure and Dynamics, Beijing, July 2005  
Guest lectureships: Cornell University, 2004; Ruhr-Universität Bochum, Fall 2005  
Grant Review panels: NIH (1996, 1999, 2002, 2004), NSF (2002, 2004)  
External Departmental Reviews: UTSC, for Texas Board of Higher Education (2004)  
Conference (co)organizer: QELS Baltimore (1997); "Molecular control and dephasing:" Telluride Academy Workshop (1998); "Proteins 2000:" ACS Symposium (San Francisco, 2000); "Vibronic Chemistry" APS symposium (March 2002) "Vibrational Spectroscopy" Telluride Academy Workshop (2003); Japan-US meeting Physics of Protein Folding and Function (Keihanna, January 2004); APS focus session "Energy landscapes" (2005); "Penn Protein Meeting" (2005).  
Visiting scientist/faculty: Hebrew University (1999); Hungarian Academy of Sciences (1999); École Polytechnique Fédérale, Lausanne (1999)  
Advisory committees: ACS Spectroscopy Awards (1996-1999); Member-at-Large, APS Chemical Physics Division Executive Committee (2001-)  
Reviewer: (excluding multiple tenure reviews) NSF, NIH, ACS-PRF, Research Corporation, MacArthur Foundation, ACS Awards, Danish Research Board, FORTH (Greece), Science, Nature, J. Mol. Biol., Proc. Natl. Acad. Sci. USA, Oxford University Press, J. Phys. Chem., J. Chem. Phys., Chem. Phys. Lett., Biophys. J., TiBS, Phys. Rev. Lett., Phys. Rev., Mol. Phys., Biochemistry, Nature Structural Biology, J. Am. Chem. Soc., Chem. Phys., J. Biol. Phys., U.S. Civilian Research and Development Foundation, Protein Science, FEBS Letters, Angewandte Chemie, Schweizer Nationalfonds der Naturwissenschaften, Volkswagen Stiftung, Biophysical Chemistry, European Journal of Biochemistry, Protein Science, MPI für Biophysik (Göttingen), Quadrant AG.