

## Curriculum Vitae

Martin Gruebele

### Personal data:

Birth date: January 10<sup>th</sup>, 1964 in Stuttgart, Germany (US citizen)

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

### Contact information:

University of Illinois at Urbana-Champaign  
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Urbana, IL 61801

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### Education:

B.S. (1984) Chemistry, University of California at Berkeley  
Advisors: Ken Sauer (biophysics), Wilhelm Maier (organic synthesis),  
Richard J. Saykally (laser spectroscopy) (1982-1984)  
Ph.D. (1988) Chemistry, University of California at Berkeley  
Thesis advisor: J. Saykally (1984-1988)  
Postdoctoral Fellow California Institute of Technology (Caltech)  
Postdoctoral Advisor: Ahmed Zewail (1989-1992)

### Professional Experience and Positions:

Professor in the Center for Advanced Study (2017-present)  
James R. Eiszner Chair in Chemistry (2008-present)  
Professor of Physics (2000-present)  
Professor of Biophysics and Quantitative Biology (1999-present)  
Professor of Chemistry (1999-present)  
Beckman Institute Faculty (full time 1992-1998, part time 1998-present)  
Head, Department of Chemistry (2017-2020)  
Adjunct Professor of Physics (Michigan State University, 2008-2014 [faculty mentor])  
Associate Editor, JACS (2013-2017)  
William H. and Janet Lycan Professor (2006-2008)  
Director, Center for Biophysics and Computational Biology (2003-2008)  
Alumni Scholar Professor (2002-2005)  
Senior Editor, Journal of Physical Chemistry (ACS, 1998-2005)  
Associate Professor of Chemistry (1998-1999)  
Assistant Professor of Chemistry (University of Illinois at Urbana-Champaign, 1992-1998)  
Consultant, Quantum Design Corp. (1991); Lasermetrics (1993-1994)

### Research Interests:

Protein and RNA folding and interactions *in vitro* and *in vivo*; imaging excited states of nanomaterials and glassy surface dynamics; molecular energy flow, quantum coherence and quantum computing; statistical mechanical transport models; organismal behavioral dynamics; 300+ publications, 65+ h-index (Google Scholar)

### Awards and Honors:

Hans Neurath Award (Protein Society, 2020)  
TREE Award (Research Corporation, 2018)  
Professor in the Center for Advanced Study (U of I Center for Advanced Study, 2017)  
ACS Nakanishi Prize (ACS National Award/Chemical Society of Japan Award, 2017)  
List of Teachers Ranked as Excellent by Their Students (U of I, 2010-16)  
SEED Award (Research Corporation, 2016)  
Masters Champion (Race Across America, 2016)  
Fellow of the American Chemical Society (USA, 2015)  
Member of the National Academy of Sciences (USA, 2013)  
Fellow of the American Academy of Arts and Sciences (USA, 2010)  
Raymond and Beverly Sackler International Prize (Israel, 2008)

Member of the German National Academy of Science (Leopoldina) (Germany, 2008)  
Teaching Excellence Award (School of Chemical Sciences, U of I, 2006)  
Fellow of the Biophysical Society (Biophysical Society, 2005)  
Friedrich Wilhelm Bessel Research Prize (von Humboldt Foundation, 2005)  
Associate of the Center for Advanced Studies (U of I, 2003)  
Fellow of the American Physical Society (APS, 2002)  
National Science Foundation Creativity Extension Award (NSF, 2002)  
Alumni Scholar Professorship (U of I, 2002)  
Coblentz Award (Coblentz Society, 2000)  
University Scholar (U of I, 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, U of I, 1995)  
Cottrell Scholar Award (Research Corporation, 1995)  
Fellow at the Center for Advanced Studies (U of I, 1995)  
David and Lucile Packard Fellow (Packard Foundation, 1994)  
National Young Investigator Award (NSF, 1994)  
List of Teachers Ranked Excellent by Their Students (U of I, 1993)  
A. O. Beckman Award (U of I 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 Teacher 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)

#### Named Lectureships:

Neckers Lecture (Southern Illinois University, 2021)  
Frederick Kaufman Lecturer (U. Pittsburgh, 2021)  
Phi Beta Kappa Lecturer (U. Texas and SUNY, remote in 2020 and 2021)  
W. A. Noyes Lecturer (U. Rochester, 2019)  
Frontiers Lecturer (Wayne State U., 2018)  
El Paso Corporation Lecturer (U. of Houston, 2018)  
Edward Eyring Lecturer (U. Utah, 2018)  
Harry Kroto Lecturer (Florida State University, 2017)  
Ralph and Lucy Hirschmann Visiting Professorship (U. Pennsylvania, 2017)  
Frontiers in Chemistry Lecture Series (Texas A&M, January 2017)  
John E. Willard Lecturer (U. Wisconsin-Madison, January 2017)  
Xingda Lecturer (Peking University, December 2016)  
Institute Lecturer (IIT Kanpur, December 2016).  
Centenary Lecturer (IS Bangalore, December 2016).  
Debye Lecturer (Cornell U., November 2014)  
Cross Lectures (U. Washington, October 2014)  
Bryce L. Crawford Lectureship (UMn, February 2012)  
Roger E. Miller Lecturer (UNC, September 2011)  
Nevada Distinguished Chemistry Lecturer (UNR, April 2011)  
R. B. Bernstein Memorial Lecturer (UCLA, May 2009)  
Jones Lecturer (Queens University, November 2008)  
Gunning Lectureship (U. Alberta, 2008)  
ISTeC Lecturer (Colorado State University, 2007)  
Franklin Lecturer (Rice University, 2006)  
Baker Lecturer (Cornell University, 2004)

#### Membership in Professional Societies:

American Chemical Society (Fellow), American Physical Society (Fellow), Biophysical Society (Fellow), Sigma Xi, Protein Society, Inter-American Photochemical Society, German Biophysical Society, German National Academy of Sciences, American Academy of Arts and Sciences, National Academy of Sciences (USA)

Selected Professional Activities:

Associate Editor: JACS - Journal of the American Chemical Society (2013-2017)

Senior Editor: Journal of Physical Chemistry, ACS (1998-2005)

Editor (as member): PNAS - Proceedings of the National Academy of Sciences, USA (2013-)

Guest Editor: Chemical Physics Special Issue (2004), Int. J. Mol. Sci. Special Issue (2008), Methods Special Issue (2010), J. Chem. Phys. Special Biological Physics Issue (2013), J. Phys. Chem. B Special Issue for Peter Wolynes (2013)

Editorial Boards: J. Chem. Phys. (1998-2001); Chem. Phys. Lett. (1999-2014); Annu. Rev. Phys. Chem. (2001-2006); Chem. Phys. (2001-2014); Adv. Chem. Phys. (2006-2011), J. Phys. Chem. (2008-2010), IJMS (2008-2013), J. Phys. Chem. Advisory Board (2010-2013)

Society Officer: Chair ACS Physical Chemistry Division (2013); Program Chair (2012); Vice-Chair (2011); Vice chair-elect (2010); Chair-elect Biophysical Society Biophysics In-Vivo subgroup (2014); Chair BPS BIV subgroup (2015);

Executive Committee: International Symposium on Molecular Spectroscopy (2013-2019)

Director: Center for Biophysics and Computational Biology (2003-2008)

External appointments: Adjunct Professor, MSU (2008-2014 – faculty mentoring)

Review and advisory panels: NIH (1996, 1999, 2002, 2004, 2008-2012, 2013, 2015, 2018), NSF (2002, 2004, 2007-2011), Research Corporation (2011-2016), Packard Foundation (2016-), The Royal Society of London (2020).

Summer Schools and Guest Lectureships: Protein Structure and Dynamics, Beijing (2005); Chemistry Teaching Exchange, Hanoi U. Science (2008,2009,2010,2012,2014); Tulip 2009, Noordwijk; CPLC Summer School (2009-2019), CPLC K-12 Teacher's Summer School (2011-2014; 2016-2018); PKU Winter School: Future of Biophysics (2016).

External Advisory Committees: UTSC, for Texas Board of Higher Education (2004), ACS Spectroscopy Awards (1996-1999); Member-at-Large, APS Chemical Physics Division Executive Committee (2001-2002); AIP Editor search (2008); Research Corporation for the Advancement of Science, Science Advisory Board (2011-2017); various NAS awards committees (2014-); Packard Fellowship Committee (2016-); NSF Center UC Merced (2016-, V. Muñoz, Director); Nobel Institute of Biomedicine, Science Advisory Board (Zhuhai, Prof. Ziwei Huang);

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); "Leopoldina-NAFKI meeting on solvation dynamics of biomolecules" (2010); "Biospectroscopy" at Pacifichem (2010); All ACS national meetings for the PHYS Division (2012); Mini-symposium, International Symposium on Molecular Spectroscopy (2013); TSRC on "Quinary Interactions: Structure, Dynamics, Function", June 2021 (Organizing Committee); GRC on "Protein Dynamics" 2024 (co-chair with Robert Best).

Visiting scientist/faculty: Hebrew University (1999); Hungarian Academy of Sciences (1999); École Polytechnique Fédérale, Lausanne (1999); Ruhr-Universität Bochum (2005-2006).

Reviewer: NSF, NIH, NIH-SCORE, ACS-PRF, Research Corporation, Packard Foundation, ACS PRF, 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. A and E, 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, Folia Biologica, Angewandte Chemie, Nobel Foundation, Schweizer Nationalfonds der Naturwissenschaften, Volkswagen Stiftung, Deutsche Forschungsgemeinschaft, Biophysical Chemistry, European Journal of Biochemistry, MPI für Biophysik (Göttingen), Quadrant AG Prize, Taylor & Francis Publishers, Proteins: SFB, Wiley Publishers, Theoretical Chemistry Accounts, International Journal of Molecular Science, Methods, PCCP, Biopolymers, IJMS, Current Physical Chemistry, Spectrochimica Acta A., Wallenberg Foundation, Royal Swedish Academy of Sciences, U. of Chicago BIG Program, Trends in Biochemical Sciences, Scientific Reports, Nature Methods, Journal of Biological Chemistry, OSU Baker Fund.