Martin T. Zanni

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Date of Birth: February 28, 1972; Portland, OR

Education:
B.S., Chemistry (highest honors), University of Rochester, 1994
B.A., Physics (highest honors), University of Rochester, 1994
Ph.D., Chemistry, University of California at Berkeley, 1999
Advisor: Daniel M. Neumark
Dissertation: "Photodissociation and charge transfer dynamics studied with femtosecond photoelectron spectroscopy"

Appointments:
Meloche-Bascom Associate Professor (7/2008 –)
Department of Chemistry, University of Wisconsin, Madison, WI
Meloche-Bascom Assistant Professor (10/2007 – 6/2008)
Department of Chemistry, University of Wisconsin, Madison, WI
Assistant Professor (7/2002 – 10/2007)
Department of Chemistry, University of Wisconsin, Madison, WI
NIH Postdoctoral Fellow (1/2000-6/2002) with Robin M. Hochstrasser
Department of Chemistry, University of Pennsylvania, Philadelphia, PA

Honors and Awards:
American Chemical Society Nobel Laureate Signature Award for Graduate Education in Chemistry, 2010 (as mentor)
Coblentz Award, 2006
Alfred P. Sloan Research Fellow, 2006
Packard Foundation Science and Engineering Fellowship, 2005
Benjamin Smith Reynolds Award for Excellence in Teaching Engineers, 2005
Beckman Young Investigators Award, 2004
National Science Foundation CAREER Award, 2003
Research Corporation Innovation Award, 2002
Camille and Henry Dreyfus New Faculty Award, 2002
American Chemical Society Nobel Laureate Signature Award for Graduate Education in Chemistry, 2001 (as student)
National Institute of Health Postdoctoral Fellow (NRSA), 2000
American Chemical Society Regional Award, Rochester, NY, 1994
Bausch and Lomb Scholar, University of Rochester, 1990

Publications:

67. W. Xiong, J. E. Laaser, P. Paoprasert, R. Franking, R. J. Hamers, P. Gopalan, and M. T. Zanni, "Transient 2D IR spectroscopy of charge injection in dye-sensitized nanocrystalline thin films," Submitted.

66. D.B. Strasfeld, Y.L. Ling, R.Gupta, D.P. Raleigh, and M.T. Zanni, "2D IR spectroscopy of isotope labeled amylin: experiments and simulations," J. Phys. Chem. B, *In Press.*

65. A. S. Reddy, L. Wang, Y.-S. Lin, Y. L. Ling, M. Chopra, M. T. Zanni, J. L. Skinner, and J. J. de Pablo, "Solution Structures of Rat Amylin Peptide: Simulation, Theory, and Experiment," Biophysical J., *In Press.*

64. C.T. Middleton, D.B. Strasfeld, and M.T. Zanni, "Polarization shaping in the mid-IR and polarization-based balanced heterodyne detection with application to 2D IR spectroscopy," Optics Express, 17, 14526 (2009).

63. D.B. Strasfeld, C.T. Middleton, and M.T. Zanni, "Mode Selectivity with Polarization Shaping in the Mid-IR," New Journal of Physics, 11, 105046 (2009). **Special Issue on Coherent Control*

62. Y.-S. Lin, J. M. Shorb, P. Mukherjee, M. T. Zanni and J. L. Skinner , "Empirical Amide I Vibrational Frequency Map: Application to 2D-IR Line Shapes for Isotope-Edited Membrane Peptide Bundles", J. Phys. Chem. B, 113, 592 (2009).

61. S.-H. Shim and M. T. Zanni, "How to turn your pump-probe experiment into a multidimensional spectrometer: 2D IR and Vis spectroscopies via pulse shaping," Perspective Article, Physical Chemistry Chemical Physics, 748, 11 (2009) ***Featured on the cover*.

60. S.-H. Shim, R. Gupta, Y.L. Ling, D.B. Strasfeld, D.P. Raleigh and M. T. Zanni, "2D IR spectroscopy and isotope labeling defines the pathway of amyloid formation with residue specific resolution," Proceedings of the National Academy of Sciences, 106, 6614 (2009). ***Featured on the cover of C&E News.*

59. Y.L. Ling, D.B. Strasfeld, S.-H. Shim, D. P. Raleigh, and M.T. Zanni1, "2D IR Provides Evidence of an On-pathway Intermediate in the Membrane-catalyzed Assembly of Diabetic Amyloid," J. Phy. Chem. B., 113, 2498 (2009).

58. J. Manor, P. Mukherjee, Y.-S. Lin, H. Leonov, J. L. Skinner, M.T. Zanni and I.T. Arkin, "Gating mechanism of the Influenza A M2 channel revealed by 1 and 2D IR spectroscopies," Structure, 17, 247 (2009). ***Article was highlighted in an accompanying Perspective article*.

57. D. B. Strasfeld, Y. L. Ling, S.–H. Shim and M. T. Zanni, "Tracking fibril formation in human islet amyloid polypeptide with automated 2D-IR spectroscopy, JACS, 130, 6698-6699 (2008).

56. W. V. Xiong and M. T. Zanni, "Signal enhancement and background cancellation in collinear 2D spectroscopies," Optics Letters, 33, 1371-1373 (2008).

55. W.V. Xiong, D. B. Strasfeld, S.-H. Shim and M. T. Zanni, "Automated 2D IR spectrometer mitigates the influence of high optical densities," Vibrational Spec., 50, 136 (2009). ***Special Issue for Young Investigators.*

54. A. T. Krummel and M. T. Zanni, "Evidence for Coupling between Nitrile Groups Using DNA Templates: A Promising New Method for Monitoring Structures with Infrared Spectroscopy," Journal of Physical Chemistry B, 112, 1336-1338 (2008).

53. E. M. Grumstrup, S.-H. Shim, M. A. Montgomery, N. H. Damrauer, and M. T. Zanni, "Facile collection of two-dimensional electronic spectra using femtosecond pulse-shaping technology," Optics Express, 15, 16681 (2007).

52. S.-H. Shim, D. B. Strasfeld, Yun L. Ling and M. T. Zanni, "Automated 2D IR spectroscopy using a mid-IR pulse shaper and application of this technology to the human islet amyloid polypeptide," Proceedings of the National Academy of Sciences, 104, 14197 (2007).

51. D. B. Strasfeld, S.-H. Shim and M. T. Zanni, "New advances in mid-IR pulse shaping and its applications to 2D IR spectroscopy and ground state coherent control." Advances in Chemical Physics, 141, 1 (2009).

50. D. B. Strasfeld, S.-H. Shim and M. T. Zanni, "Controlling vibrational excitation with shaped mid-IR pulses," Physical Review Letters, 99, 038102 (2007).

49. F. Ding and M. T. Zanni, "Heterodyned 3D IR spectroscopy," Chemical Physics, Special Issue for Douwe Wiersma, 341, 95 (2007).

48. S.-H. Shim, D. B. Strasfeld, M. T. Zanni, "Generation and characterization of phase and amplitude shaped femtosecond mid-IR pulses," Optics Express, 14, 13120 (2006).

47. P. Mukherjee, I. Kass, I. Arkin, and M. T. Zanni, "Structural disorder of the CD3ζ transmembrane domain studied with 2D IR spectroscopy and molecular dynamics simulations," J. Phys. Chem. B, 110, 24740 (2006).

46. F. Ding and M. T. Zanni, "Passively correcting phase drift in 2D IR spectroscopy," Optics Lett, **31**, 2918 (2006).

45. A. T. Krummel and M. T. Zanni, "Interpreting DNA VCD Spectra Using a Coupling Model from 2D IR Spectroscopy," J. Phys. Chem. B, 110, 24720 (2006).

44. A. T. Krummel and M. T. Zanni, "DNA vibrational coupling revealed with two-dimensional infrared spectroscopy : Why vibrational spectroscopy is sensitive to DNA structure," J. Phys. Chem. B, **110**, 13991 (2006).

43. S.-H. Shim, D. B. Strasfeld, E. C. Fulmer, M. T. Zanni, "Femtosecond pulse shaping directly in the mid-IR using acousto-optic modulation," Optics Lett., **31**, 838-840 (2006).

42. P. Mukherjee, I. Kass, I. Arkin, and M. T. Zanni, "Picosecond dynamics of membrane protein revealed by 2D IR," PNAS, **103**, 3528-3533 (2006).

41. E. C. Fulmer, F. Ding, P. Mukherjee, and M. T. Zanni, "Vibrational dynamics of ions in glass from fifth-order two-dimensional infrared spectroscopy," Phys. Rev. Lett., **94**, 067402 (2005).

40. F. Ding, E. C. Fulmer, and M. T. Zanni, "Heterodyned fifth-order 2D-IR spectroscopy: Third-quantum states and polarization selectivity," J. Chem. Phys, **123**, 094502 (2005).

39. E. C. Fulmer, F. Ding, and M. T. Zanni, "Heterodyned fifth-order 2D IR spectroscopy of the azide ion in an ionic glass," J. Chem. Phys., **121**, 034302 (2005).

38. P. Mukherjee, A. T. Krummel, E. C. Fulmer, I. Kass, I. T. Arkin, and M. T. Zanni, "Site-specific vibrational dynamics of the CD3zeta membrane peptide using heterodyned 2D IR photon echo spectroscopy," J. Chem. Phys. **120**, 10215 (2004).

37. E. C. Fulmer, P. Mukherjee, A. T. Krummel, and M. T. Zanni, "A pulse sequence for directly measuring the anharmonicities of coupled vibrations: two-quantum 2D IR spectroscopy," J. Chem. Phys. **120**, 8067 (2004).

36. A. T. Krummel, P. Mukherjee, and M. T. Zanni, "Inter- and intra-strand vibrational coupling studied with heterodyned 2D-IR spectroscopy," J. Phys. Chem. B, **107**, 9165 (2003**)**

35. N.-H. Ge, M. T. Zanni, R. M. Hochstrasser, "Local Structure and Dynamics of Liquid Acetone by Heterodyned 2D IR Spectroscopy." in *Ultrafast Phenomena XIII*, (eds.: MM Murnane, NF Scherer, RJD Miller, AM Weiner), Spring-Verlag, (2002).

34. R. M. Hochstrasser, N. H. Ge, S. Gnanakaran, and M. T. Zanni, "Two Dimensional Infrared Spectroscopy: Studies of the dynamics of structures with femtosecond pulse Fourier transform correlation spectroscopy," Bulletin of the Chemical Society of Japan **75**, 1 (2002).

33. N.-H. Ge, M. T. Zanni, and R. M. Hochstrasser, "Effects of vibrational frequency correlations on two-dimensional infrared spectra," J. Phys. Chem. B, **106**, 962 (2002).

32. A. V. Davis, M. T. Zanni, R. Weinkauf, and D. M. Neumark, "Comment on 'Iodine effect on the relaxation pathway of photoexcited $I^-(H_2O)_n$ clusters'," Chem. Phys. Lett., 353, 455 (2002).

31. M. T. Zanni, N.-H. Ge, Y. S. Kim, and R. M. Hochstrasser, "2D IR spectroscopy can be designed to eliminate the diagonal peaks and exhibit only the cross peaks needed for structure determination," Proc. Nat. Acad. Sci. USA **98**, 11265 (2001).

30. M. T. Zanni and R. M. Hochstrasser, "Two-dimensional-infrared spectroscopy (2D-IR): a promising new method for the time resolution of structures," Curr. Opin. Struct. Biol., **11**, 516 (2001).

29. M. T. Zanni and D. M. Neumark, "Nobel Laureate Signature Award for Graduate Education in Chemistry," Chem. Eng. News, **79**, 60 (2001).

28. M. T. Zanni, S. Gnanakaran, J. Stenger, and R. M. Hochstrasser, "Two-dimensional infrared spectroscopy of solvent dependent conformations of acetylproline-NH_2," J. Phys. Chem. B., 105, 6520 (2001).

27. M. T. Zanni, M. C. Asplund, and R. M. Hochstrasser, "Two-dimensional and stimulated infrared photon echoes of N-methylacetamide-D," J. Chem. Phys. **114**, 4579 (2001).

26. M. T. Zanni, M. C. Asplund, S. M. Decatur, and R. M. Hochstrasser, "Frequency resolved and heterodyned femtosecond infrared echoes of peptides; multiple pulse coherent vibrational analogues of NMR," *Ultrafast Phenomena XII*, edited by T. Elsaesser *et al.*, Springer Series Chem. Phys. **66**, 504 (2000).

25. M. C. Asplund, M. T. Zanni, and R. M. Hochstrasser, "Two-dimensional infrared spectroscopy of peptides by phase-controlled femtosecond vibrational photon echoes," Proc. Nat. Acad. Sci. USA **97**, 8219 (2000).

24. A. V. Davis, M. T. Zanni, C. Frischkorn, M. Elhanine, and Daniel M. Neumark, "Femtosecond Stimulated Emission Pumping : dynamics of vibrational energy loss in excited $I_2^-(CO_2)_4$ clusters," J. Elec. Spec. Relat. Phenom. **112**, 221 (2000).

23. A. V. Davis, M. T. Zanni, C. Frischkorn, and Daniel M. Neumark, "Time-resolved dynamics of charge transfer to solvent states in solvated iodide clusters," J. Elec. Spec. Relat. Phenom. **108**, 203 (2000).

22. M. T. Zanni, A. V. Davis, C. Frischkorn, Mohammed Elhanine, and Daniel M. Neumark, "Femtosecond stimulated emission pumping: characterization of the I_2^- ground state," J. Chem. Phys. **112**, 8847 (2000).

21. C. Frischkorn, M. T. Zanni, A. V. Davis, and Daniel M. Neumark, "Electron solvation dynamics in $I^-(NH_3)_n$ clusters," Faraday Discuss. **115**, 49 (2000).

20. M. T. Zanni, C. Frischkorn, A. V. Davis, and D. M. Neumark, "Dynamics of the charge-transfer-to-solvent states in $I^-(Xe)_n$ clusters," J. Phys. Chem. A **104**, 2527 (2000).

19. B. J. Greenblatt, M. T. Zanni, and D. M. Neumark, "Femtosecond photoelectron spectroscopy of $I_2^-(CO_2)_n$ photodissociation dynamics (n = 4,6,9,12,14,16)," J. Chem. Phys. **112**, 601 (2000).

18. B. J. Greenblatt, M. T. Zanni, and D. M. Neumark, "Femtosecond photoelectron spectroscopy of $I_2^-(Ar)_n$ photodissociation dynamics (n = 6,9,12,16,20)," J. Chem. Phys. **111**, 10566 (1999).

17. M. T. Zanni, B. J. Greenblatt, A. V. Davis, and D. M. Neumark, "Photodissociation of gas phase I_3^- using femtosecond photoelectron spectroscopy," J. Chem. Phys. **111**, 2991 (1999).

16. T. R. Taylor, K. R. Asmis, M. T. Zanni, and D. M. Neumark, "Characterization of the I_3 radical by anion photoelectron spectroscopy," J. Chem. Phys. **110**, 7607 (1999).

15. L. Lehr, M. T. Zanni, C. Frischkorn, R. Weinkauf, and D. M. Neumark, "Electron solvation dynamics in finite systems: A femtosecond study of iodide·(water)$_n$ anion clusters," Science **284**, 635 (1999).

14. M. T. Zanni, V. S. Batista, B. J. Greenblatt, W. H. Miller, and D. M. Neumark, "Femtosecond photoelectron spectroscopy of the I_2^- anion: characterization of the $\tilde{A}\,^2\Pi_{g,1/2}$ excited state," J. Chem. Phys. **110**, 3748 (1999).

13. V. S. Batista, M. T. Zanni, B. J. Greenblatt, D. M. Neumark, and W. H. Miller, "Femtosecond photoelectron spectroscopy of the I_2^- anion: a semiclassical molecular dynamics simulation method," J. Chem. Phys. **110**, 3736 (1999).

12. M. T. Zanni, L. Lehr, B. J. Greenblatt, R. Weinkauf, and D. M. Neumark, "Dynamics of charge-transfer-to-solvent precursor states in $I^-(D_2O)_n$ clusters," *Ultrafast Phenomena XI*, edited by T. Elsaesser *et al.*, Springer Series Chem. Phys. **63**, 474 (1999).

11. M. T. Zanni, B. J. Greenblatt, and D. M. Neumark, "Solvent effects on the vibrational frequency of I_2^- in size-selected $I_2^-(Ar)_n$ and $I_2^-(CO_2)_n$ clusters," J. Chem. Phys. **109**, 9648 (1998).

10. M. T. Zanni, B. J. Greenblatt, A. V. Davis, and D. M. Neumark, "Photodissociation dynamics of I_3^- using femtosecond photoelectron spectroscopy," *Laser Techniques for State-Selected and State-to-State Chemisry IV*, Proc. SPIE **3271**, 196 (1998).

9. B. J. Greenblatt, M. T. Zanni, and D. M. Neumark, "Time-resolved studies of dynamics in molecular and cluster anions," Faraday Discuss. **108**, 101 (1997).

8. M. T. Zanni, T. R. Taylor, B. J. Greenblatt, B. Soep, and D. M. Neumark, "Characterization of the I_2^- anion ground state using conventional and femtosecond photoelectron spectroscopy," J. Chem. Phys. **107**, 7613 (1997).

7. B. J. Greenblatt, M. T. Zanni, and D. M. Neumark, "Photodissociation of $I_2^-(Ar)_n$ clusters studied with anion femtosecond photoelectron spectroscopy," Science **276**, 1675 (1997).

6. B. J. Greenblatt, M. T. Zanni, and D. M. Neumark, "Photodissociation dynamics of the I_2^- anion using femtosecond photoelectron spectroscopy," Chem. Phys. Lett. **258**, 523 (1996).

5. C. G. Freeman, D. M. Herrick, D. C. Bryan, K. L. Kurz, D. H. Mathews, P. A. A. Perera, F. L. H. Wolfs, and M. T. Zanni, "New focal plane detector system for the Rochester recoil mass spectrometer," Nucl. Inst. and Meth. in Phys. Res. A **357**, 450 (1995).

4. D. M. Herrick, F. L. H. Wolfs, D. C. Bryan, C. G. Freeman, K. L. Kurz, D. H. Mathews, P. A. A. Perera, and M. T. Zanni, "Elastic scattering and quasielastic transfer for $^{32}S + ^{96,100}Mo$ at Elab=180 MeV," Phys. Rev. C **52**, 744 (1995).

3. M. A. Carpenter, M. T. Zanni, and J. M. Farrar, "Product-state-resolved study of the $O^- + D_2$ reaction: anomalous vibrational-state distributions at low collision energies," J. Phys. Chem. **99**, 1380 (1995).

2. M. A. Carpenter, M. T. Zanni, D. J. Levandier, D. F. Varley, and J. M. Farrar, "Proton transfer dynamics on highly attractive potential energy surfaces: Induced repulsive energy release in O^- + HF at high collision energies," Can. J. Chem. **72**, 828 (1994).

1. F. L. H. Wolfs, C. A. White, D. C. Bryan, D. M. Herrick, D. H. Mathews, K. L. Kurz, P. A. A. Perera, and M. T. Zanni, "Breakup of 87 MeV ^{11}B," Phys. Rev. C. **49**, 2538 (1994).

Invited Presentations:

Vibrational Spectroscopy Gordon Conference, Maine, Aug. 2010.
EUCMOS, Florence, Italy, Aug. 2010
CMDS, Minneapolis, MN, Aug. 2010
Northwestern, Apr. 2010
Pittcon, Orlando, FL, Mar. 2010
Western Spectroscopy Association, Asilomar, CA, Feb.2010.
Princeton University, New Jersey, Oct. 2009.
American Chemical Society, Washington D.C., August 2009.
TRVS, New Hampshire, May 2009.
University of Zurich, Switzerland, Apr. 2009.
University of Groningen, Netherlands, Apr. 2009.
Hebrew University and Weizmann Institute, Israel, March 2009.
Max Planck Institute, Berlin, Dec. 2008
American Chemical Society Meeting, Philadelphia, PA, Aug. 2008.
Vibrational Spectroscopy Gordon Conference, Massachusetts, Aug. 2008
Coherent Multidimensional Spectroscopy, Kyoto, Japan, Aug. 2008
Ultrafast Phenomena, Italy, June 2008.
NSF/NIH Workshop on Instrument Development, D.C., June 2008.
Optical Society of America, San Jose, CA, May 2008.
American Chemical Society Meeting, New Orleans, Apr. 2008.
University of Chicago at Illinois, Il, Apr. 2008.
US North Africa Regional Workshop on Nanostructured Materials and Nanotechnology, Tunis, Tunisia, March. 2008.
American Physical Society, New Orleans, March 2008.
Michigan State University, East Lansing, MI, Feb. 2008.
University of Minnesota, Minneapolis, MN, Jan. 2008.
Optimal Control of Quantum Dynamics: Theory and Experiment, Germany, Nov. 2007
FTIR2007, Buenos Aires, Argentina, Nov. 2007.
Columbia University, New York, NY, Oct. 2007.
FACSS, Tennessee, Oct. 2007.
University of Pittsburgh, Pittsburgh, PA Oct. 2007.
Optical Society of America, California, Sept. 2007.
Marquette University, Milwaukee, WI, Sept. 2007.
American Chemical Society Meeting, Boston, Aug. 2007.
OSU Symposium on Molecular Spectroscopy, Ohio, June 2007.
University of California – Berkeley, Berkeley, CA, March 2007.
University of Illinois – Urbana/Champagne, Illinois, February 2007.
University of Pennsylvania, Philadelphia, PA, February 2007.
University of Wisconsin, Department of Physics, December 2006.
Carleton College, Minnesota, Sept. 2006.
Water and Aqueous Solutions, Gordon Research Conference, New Hampshire, August 2006.
Vibrational Spectroscopy, Gordon Research Conference, Maine, July 2006.
Symposium on Vibrational Spectroscopy, Telluride, CO, July 2006.
University of Colorado, Boulder, CO, April 2006.
University of Pennsylvania, Philadelphia, PA, April 2006.
Pennsylvania State University, University Park, PA, May 2006.
Wayne State University, Detroit, MI, January 2006.
Purdue University, West Lafayette, IN, January 2006.
Engaging First-Year Students: Strategies for Academic Success," Madison, WI, October 2005.
Vibrational Dynamics of Biological Molecules, Telluride, CO, August 2005.
Chemistry and Physics of Liquids, Gordon Research Conference, NH, July 2005.
Summer Lecture Series, University of Wyoming, Laramie, Wyoming, July 2005.
Nonlinear Ultrafast Spectroscopy in Liquids, Telluride, CO, June 2005.
International Symposium on Molecular Spectroscopy, Ohio State University, June 2005.
Joint Theoretical Chemistry Lecture Series, Harvard/MIT/Boston U., Boston, MA, April 2005.

Elementary Chemical Processes in Condensed Media, Paris, France, March 2005.
American Physical Society Meeting, San Diego, CA, March 2005.
University of Rochester, Rochester, NY, May 2005.
Synchrotron Radiation Center, Workshop on Emerging New Directions of Synchrotron Research, Madison, WI, Sept. 2004.
University of Southern California, Los Angeles, CA, February 2005.
Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), Portland, OR, Oct. 2004.
Optical Society of America, Rochester, NY, Oct. 2004.
International Multidimensional Spectroscopy, Madison, WI, August 2004.
University of Iowa, Iowa City, February 2003.
Portland State University, Portland, OR, May 2002

Departmental and University Committees:

2005 - 2008	Graduate Admissions Committee
	Awards Committee
	Shops Committee
	Faculty Senator
2006	University Orientation & New Student Programs Advisory Committee
2007	Website Committee
2009 -	Graduate School Research Committee
	Graduate Student Faculty Liaison Committee
	Safety Committee
	Faculty Search Committee

Professional Activities:

Symposium organizer
- Frontiers in Biophysical Methods, Amer. Chem. Soc., NY Sept. 2003.
- Vibrational Dynamics of Biomolecular Systems, Amer. Chem. Soc., Chicago, IL March, 2007.
- Gas and condensed phase spectroscopy of biomolecules, Amer. Chem. Soc., Spring 2011.

Organizing/Program Committees:
- Coherent Multidimensional Spectroscopy (CMDS), (2008-present).
- Conference on Time-resolved Raman and Vibrational Spectroscopy (TRVS), (2008-present)
- 17th International Conference on Ultrafast Phenomena (UP). July 18–23, 2010 Colorado, USA

Journal Editorial Advisory Boards
- Journal of Physical Chemistry (Jan. 2010 – Dec. 2012).
- Journal of Chemical Physics (Jan. 2010 – Dec. 2012).

Consultant for Imago Scientific Instruments, Madison, WI. (2003 – 2005).

Chair of the Biophysical Subdivision of the American Chemical Society Physical Chemistry Section (2007 – 2010)

Faculty educator, *Biology Interest Groups (BIGs)*, Center for Biology Education, a National Science Foundation funded teaching consortium at the University of Wisconsin-Madison.

Reviewer and referee for the National Institutes of Health, National Science Foundation, Department of Energy, Research Corporation, ACS Petroleum Research Fund, J. Chem. Phys., J. Phys. Chem., Chem. Phys. Lett., ChemPhysChem, J. Amer. Chem. Soc., Biochemistry, Biopolymers, Proc. Natl. Acad. Sci., Accounts of Chem. Res., Optics Letters, JOSA B, Applied Spect., Nature, and Science.

Graduate Students:	Eric Fulmer, Ph.D. 2006 (government) Terry Ding, Ph.D. 2007 (postdoc at Maryland) Amber Krummel, Ph.D. 2007 (postdoc at Harvard) Prabuddha Mukherjee, Ph.D. 2008 (postdoc at UIUC) Sang-Hee Shim, Ph.D. 2008 (postdoc at Harvard) David Strasfeld, Ph.D. 2009 (Postdoc at MIT) Yun Ling, 11/05– Ann Woys, 11/06– Wei Xiong, 11/06– Emily Blanco, 11/07– Sudipta Mukherjee, 11/07– Jennifer Laaser, 11/08 – Lauren Buchanan, 11/08 – Dong Gyun Ha, 11/08 – David Skoff, 11/09 –
Postdoctoral Researchers	Chris Middleton, Ph.D., 7/2008 – Sean Moran, Ph.D., 2/2009 –
Undergraduate Students:	Sam Bockenhauer (1/04-8/05), Krysten Dorman (1/04-6/04), Erik Harrington (1/03-5/03), Jennifer Cedzo (8/04-5/05), Kristin Jansen (8/04- 5/05), Tom Garvey (10/05-4/06), John Manzuk(12/05-12/07), Valentine van Wonterghem (10/06-4/07), Steve Schmitt (3/07-9/07), Erin Conrad (4/07-)