

Ksenija D. Glusac

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Academic Appointments:

- Bowling Green State University, Bowling Green, Ohio
Assistant Professor, 2006 –Present

Education:

- Stanford University, Stanford, California
PRF Postdoctoral Fellow, 2004 to 2006.
Research Advisor: Professor Michael D. Fayer.
- University of Florida, Gainesville, Florida
Ph. D. in Physical Organic Chemistry, 2003
Research Advisor: Professor Kirk S. Schanze.
- University of Belgrade, Belgrade, Yugoslavia
B.S. in Organic Chemistry, 1994 - 1999
Research Advisor: Professor Radomir N. Saicic.

Work Experience:

- Stanford University

Research Scientist: (January 2004 to present) – study of photoinduced electron transfer and geminate recombination in liquids, micelles and conjugated polymer/inorganic semiconductor systems by means of ultrafast pump-probe spectroscopy; work experience includes building of femtosecond pump-probe laser system and theoretical modeling of photoinduced electron transfer process; programming experience in Matlab and Labview.

- University of Florida

Research Assistant: (Summer 2001 - Summer 2003) - study of singlet and triplet excited state properties of conjugated organic oligomers and polymers; hands-on research experience includes variable temperature absorption and emission spectroscopy, transient absorption spectroscopy and photoacoustic spectroscopy.

Teaching Assistant: General Chemistry (Spring 2000), Organic Chemistry (Summer 2000 - Spring 2001) - work with students in laboratories and discussion rooms.

- University of Belgrade

Laboratory Researcher: (Fall 1998 - Fall 1999) - study of reactions that lead to enantiomerically pure natural products; work skills include preparation, separation

(gravitational chromatography, flash chromatography) and characterization (gas chromatography and NMR spectroscopy) of organic compounds.

Awards:

- Jones Award for Creativity and Originality, 2002.

Proposal Title: "*Dendrimeric Chromophore with 2nd Order Nonlinear Optical Behavior.*"

- ACS PRF Postdoctoral Fellowship, 2004-2006.

Proposal Title: "Photoinduced Electron Transfer and Geminate Recombination: Singlet vs. Triplet Excited State."

Funding:

- BGSU Research Incentive Grant (\$11,000), 2007-2008.

Proposal Title: "*Controlled Electron Transfer in Hydrogen Bonded Systems.*"

- ACS PRF Starter G Grant (\$40,000), 2007-2009.

Proposal Title: "*Controlled Electron Transfer in Hydrogen Bonded Systems.*"

- ACS PRF Summer Supplement for Underrepresented Minority Research Fellowship (\$5,000), 2008.

- BGSU Research Capacity Expansion Grant (\$50,000), 2007-2008.

Proposal Title: "Bio-inspired Molecular Machines: Powered by Light, Controlled by Protons."

Publications:

- **K. D. Glusac**, S. Jiang and K. S. Schanze, "Photophysics of Ir(III) Complexes with Oligo(arylene ethynylene) Ligands", *Chem. Commun.*, **2002**, 2504.
- Y. Liu, S. Jiang, **K. D. Glusac**, D. H. Powell, D. F. Anderson and K. S. Schanze, "Photophysics of Mono-Disperse Platinum Acetylide Oligomers: Delocalization in the Singlet and triplet Excited States", *J. Am. Chem. Soc.*, **2002**, 124, 12412.
- **K. D. Glusac**, I. Ghiviriga, K. A. Abboud and K. S. Schanze, " Photophysics and Photochemistry of Stilbene-Containing Platinum Acetylides ", *J. Phys. Chem. B.*, **2004**; 108(16); 4969.
- **K. D. Glusac**, M. Pinto, C. Tan and K. S. Schanze, "Luminescence Quenching of a Phosphorescent Conjugated Polyelectrolyte", *J. Am. Chem. Soc.*, **2004**, 126, 14964.
- E. E. Silverman, T. Cardolaccia, X. Zhao, K.-Y. Kim, **K. D. Glusac**, K. S. Schanze, "Optical Properties of Pt-Acetylide Oligomers, Polymers and Copolymers", *Coord. Chem. Rev.*, **2005**, 249, 13-14, 1491.

- A. Goun, **K. D. Glusac**, M. D. Fayer, “Photoinduced Electron Transfer and Geminate Recombination in Liquids on Short Time Scales: Experiments and Theory”, *J. Chem. Phys.*, **2006**, 124, 084504.
- **K. D. Glusac**, A. Goun, M. D. Fayer, “Photoinduced Electron Transfer and Geminate Recombination in the Group Head Region of Micelles”, *J. Chem. Phys.*, **2006**, 125, 054712.
- **K. D. Glusac**, M. Erkan Kose, H. Jiang and K. S. Schanze, “The Triplet Excited State in Platinum-Acetylide Oligomers: Triplet Localization and Effects on Conformation”, *J. Phys. Chem. B*, **2007**, 111, 929.
- D. B. Spry, **K. D. Glusac**, A. Goun and M. D. Fayer, "Excited State Proton Transfer as a Probe of Confined Water in Nafion Membranes", *J. Am. Chem. Soc.* **2007**, 129, 8122-8130.
- G. Li, **K. D. Glusac**, “Light-Triggered Proton and Electron Transfer in Flavin Cofactors”, *J. Phys. Chem.*, **2008**, In Press.
- P. Kucheryavy, G. Li, S. Vyas, C. Hadad, **K. D. Glusac**, “Electronic Properties of 4-Substituted Naphthalimides”, In Preparation.
- G. Li, V. Sichula, **K. D. Glusac**, “The Role of Adenine in Thymine Dimer Repair by Reduced FAD”, In Preparation.