## Curriculum Vitae

## Elena G Gregg

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•Education: M.S., Theoretical and Applied Spectroscopy, St. Petersburg State University, Russia, 1980; PhD, Optics, State Optical Institute, Russia, 1994.

## •Academic experience:

State Optical Institute, St. Petersburg, Russia, Instructor/Student Supervisor, 1980 – 2001, part time.

Tulsa Community College, Adjunct Instructor, 2003 – 2006.

Physics Department, University of Tulsa, Adjunct Instructor, 2004 – 2006.

Rogers State University, OK, Adjunct Instructor, 2004 – 2006.

St. Gregory University, Tulsa, OK, Adjunct Instructor, 2005 –present.

Oral Roberts University, Tulsa, OK, Assistant Professor, 2006- present.

## •Professional experience:

St. Petersburg State University, St. Petersburg, Russia Research Assistant. Studied influence of the cryogenic solvents on spectra of the weak complexes of simple substances with hydrogen bonds. 1978 - 1980, part time.

State Optical Institute, St. Petersburg, Russia, Researcher. Conducted research in the Laboratory of Molecular Studies and later in the Laboratory of Picoseconds' Spectroscopy concerning the influence of the absorption of light by complicated molecules. 1980 - 2001, full time.

- •Certifications or professional registrations: Radiation Safety Officer Training Certificate. May 2011.
- •Current membership in professional organizations: American Association of Physics Teachers, American Physical Society, American Society of Physics Students.
- •Research interests and Expertise: Optics, laser physics, absorption of light by complex molecules. Quantum yields of fluorescence and non-radiative deactivation of high

- electronic states in carbon and aromatic molecules in liquid state. Undergraduate research, education, and diversity in higher education. Different teaching methods to improve student's motivation, performance and achievements, specifically among female and minority students.
- •Service activities: ORU Senate (ECPM department representative), Senate General Education Science Committee, ORU Radiation Safety Committee, Departmental Publicity and Recruitment Activities, Christ for Humanity, Domestic Violence Intervention Services, Tulsa, OK.
- •List of publications and presentations from past five years: "Teaching Physics in America. Outsider's View", Elena Gregg, AOK Section of AAPT, KS, October 2009. "Influence of Different Instructional Methods on Student's Performance", "Teaching Physics in America", Hawaii University Conference on Education, HI, July 2012. "Improving Performance through Motivation", AOK Section of AAPT, Enid OK, November 2012. "Teaching Physics to Biology pre-med Students", AAPT, New Orleans, January 2013. "Improving Performance through Motivation: Teaching Biology Pre-med Students Physics", APS, Baltimore, March 2013.
- •List the most recent professional development activities: Radiation Safety Officer Training (May 2011, Nevada); On line Teaching Training 2010; professional development lectures offered by ORU and Publishing companies; participation in preparation of Self Study report for the ABET Inc. (2010-2012); Local Arrangement Chair IEEE Green Technologies Conference, IEEE Business meeting and Student's Competition (May 2012, Tulsa OK); CSWP Professional Skills Development for Women Physicists conference (March, 2013 Baltimore); Testing and evaluating physics textbooks ("College Physics" by Etkina, Gentile and Van Heuvelen 2012); "Women in Science" conferences, Oklahoma City, OK (February 8, 2011 and March 30, 2012); Summer Engineering Camp at ORU (July 2011); NSF training at University of Tulsa (January 8, 2013)
- •Grants: CSWP Professional Skills Development for Women Physicists (March 2013).