

## Curriculum Vitae

Grinell Smith, Ph.D.  
Assistant Professor  
Department of Elementary Education  
Connie L. Lurie College of Education  
San José State University  
Appointed: 2006

### Academic Degrees:

Ph.D. University of Alabama, 2004, Instructional Leadership  
M.S. Georgetown University, 1992 Physical Organic Chemistry  
B.S. Auburn University, 1987, Chemistry

### Professional Experience:

2006 – Present Assistant Professor, San José State University  
2005 – 2006 Adjunct Professor, University of West Alabama  
1993-2004 On-air Instructor, University of Alabama  
1990-1992 Teaching Fellow, Georgetown University

### Areas of Specialization, Research, and Teaching:

Science Education, Sustainability, Equity in Education, Instructional Technology,  
Educational Media Production and Analysis

### Publications:

#### Papers:

- Smith, G. (2012, In Press). The way we educate: twenty million miles for some, a twenty minute walk for others. *Schools: Studies in Education*.
- Smith, G. (2011). Developing a sustainability plan at a large U.S. college of education. *The Journal of Teacher Education for Sustainability*, 13(2).
- Smith, G. (2010). Introducing STEM majors to the teaching profession through authentic experiences as tutors. *Current Issues in Education*, 13(4).
- Smith, G. (2010). A critical look at the role of technology as a transformative agent. *Technology, Humanities, Education, and Narrative*, 8.
- Smith, G. (2008). Science books for professional pleasure reading: round out your content knowledge and foster interest in science with this list.(Recommended readings). *Science and Children*, 45 (1), 40-43.
- Smith, W.G. (2008). Does gender influence online survey participation?: A record-linkage analysis of university faculty online survey response behavior. (ERIC Document Reproduction Service No. ED 501717).

Terech, P., Smith, G., & Weiss, R.G. (1996). Small angle scattering study of aqueous gels of sodium lithocholate. *Journal of the Chemical Society, Faraday Transactions*, 92 (17), 3157-3162.

Broadcast Television Programs:

Smith, G. (Writer and host 1993-2004). *Integrated Science* television series. University of Alabama: *Center for Public Television and Radio*.

Note – the above references over 250 hours and 700 episodes of educational television programming broadcast on public television networks in over 30 U.S. states and throughout Quebec and Ontario, Canada, many of which are still in broadcast rotation.

Smith, G. (1998). *Aunt-Litter*. University of Alabama: *Center for Public Television and Radio*.

Books, Chapters, Manuals:

Smith, G., Blumthal, D. (1998). *Energy*. Tuscaloosa, AL: University of Alabama Center for Communication and Educational Technology (One of four student textbooks for *Integrated Science 8*).

Smith, G., (1997). *Waves*. Tuscaloosa, AL: University of Alabama Center for Communication and Educational Technology (One of four student textbooks for *Integrated Science 8*).

Smith, G., (1996). *Stages*. Tuscaloosa, AL: University of Alabama Center for Communication and Educational Technology (One of four student textbooks for *Integrated Science 8*).

Smith, G., James, J. (1996). *Emphasis on Energy: Energy-Related Activities for Middle School Students* (Published in cooperation with Alabama Department of Energy Experimental Program to Stimulate Competitive Research [EPSCoR]).

Presentations:

Smith, G., & Rabin, C. (2012). Understanding resistance to standardization in education: the tragedy of the commons as a theoretical framework. Paper accepted for presentation at the American Educational Research Association (AERA) National Conference, April 13-17, 2012, Vancouver, British Columbia, Canada.

Rabin, C., & Smith, G. (2012). Theory into practice in classroom management. Paper accepted for presentation at the American Educational Research Association (AERA) National Conference, April 13-17, 2012, Vancouver, British Columbia, Canada.

- Smith, G. (2011). Infusing sustainability into teacher preparation programs at a large state university. National Science Teacher Association (NSTA) Conference, December 7-10, 2011, Seattle, WA.
- Smith, G. & Rabin, C. (2011). Sustainability as a core concept in elementary science education. National Science Teacher Association (NSTA) Conference, December 7-10, 2011, Seattle, WA.
- Smith, G. & Rabin, C. (2011). Making connections between science and equity: a motivation to teach science in elementary grades. American Educational Research Association (AERA) National Conference, April 8-12, 2011, New Orleans, LA.
- Rabin, C. & Smith, G. (2011). What one teacher's stories illuminate about what makes a 'good' teacher: Theatricality, courage, and creativity. American Educational Research Association (AERA) National Conference, April 8-12, 2011, New Orleans, LA.
- Smith, G. (2011). *Overcoming content knowledge barriers to teaching K-8 science through informal learning using new media technologies*. National Science Teacher's Association (NSTA) National Conference, March 10-13, 2011, San Francisco, CA.
- Smith, G. & Rabin, C. (2011). *Science instruction in elementary school as an ethical responsibility*. National Science Teacher's Association (NSTA) National Conference, March 10-13, 2011, San Francisco, CA.
- Smith, G. (2010). Using video and hypertext media to improve K8 science teacher content knowledge. Society for the Information Technology and Teacher Education International Conference (SITTE), March 29 – April 2, 2010, San Diego, CA.
- Smith, G. (2009). Learning to teach: a web-based approach to increasing science teacher content knowledge in the context of teaching. Merlot International Conference, August 13-16, San José, CA.
- Lu, M.Y., Smith, G., Marachi, R. & Lin, C.M. (2009). Integrating technology in the college of education: A survey of effective instructional technologies and applications. Merlot International Conference, August 13-16, San José, CA
- Smith, G. (2009). Strengthening teacher science content knowledge in the context of teaching. National Middle School Association (NMSA) National Symposium on Middle Level Teacher Preparation, April 23-24, Las Vegas, NV.

Smith, G. (2009) Relying on the strangeness of kinders. California Council on Teacher Education, (Technology SIG), March 26-28, San José, CA.

Lucas, S.B. & Smith, G. (2004). Exploration of instructional technology in higher education: The role of gender in IT teaching practices and beliefs among faculty. American Educational Research Association (AERA), April 11-16, San Diego, CA.

Beedle, J., Gray, R., Lucas, S., & Smith, G. (2003 ). Copyright in the digital age: relations and reconciliations. Society for the Information Technology and Teacher Education International Conference (SITTE), Albuquerque, New Mexico.

Smith, G. (2003). Copyright and Digital Media. *The University of Alabama*, Faculty Resource Center. (Broadcast live on the World Wide Web July 7, 2003).

Beedle, J., Gray, R., Lucas, S., & Smith, G. (2002). Understanding copyright in the information age: implications for the classroom and beyond. *MSERA Annual Meeting*, Chattanooga, TN.

Smith, G. (2001). Constructing constructivist teachers: Six easy pieces. Invited speaker at *Governor Janklow's Distance Learning Showcase*, Rapid City, SD. (Broadcast live on the World Wide Web, October 2-3, 2001.)

#### Commentary:

Smith, G. (2007). *Bluebird* - a narrative, audio, and imagery account of an international adoption. Available at [www.crescentandgrinell.blogspot.com](http://www.crescentandgrinell.blogspot.com).

Smith, G. (2005). *Outbound*. (A series in six installments focusing on social, multicultural, and educational issues related to travel). *Tuscaloosa City Magazine*.

#### Video and Multimedia Projects:

Smith, G. (2008). *Learning to Teach* – a multimedia curriculum pilot project partially funded by the San José State University Research Foundation aimed at helping science teachers improve their science content knowledge. Available at [http://web.mac.com/grinell/iWeb/Learning\\_to\\_Teach/Home.html](http://web.mac.com/grinell/iWeb/Learning_to_Teach/Home.html)

Smith, G., Markowitz, N. (2007). *The T.E. Collaborative* - produced for the Teacher Education Collaborative at San José State University.

#### Patents and Inventions:

Smith, G. (2008) *Macromolecules* – a reactive hand-held space-filling organic molecular modeling system.

Funded Grants:

*Improving 6<sup>th</sup> Grade Climate Literacy Using New Media and Teacher Professional Development.* (Participant) A project funded by the National Aeronautics and Space Administration (\$385,981), Fall 2011-Spring 2014.

*Building Information Literacy Communities: A Standards-Based Collaborative and Multi-disciplinary Action Research Project for Web-based Course Module Development.* A project funded by the COE Lurie Innovation for Excellence LIFE AWARDS (\$20,000), Spring 2009-Fall 2010.

*DON'T KILL YOUR TV! Using Video and Hypertext Media to Improve K-8 Science Teacher Content Knowledge.* A Junior Faculty Career Development project funded by San José State University. (Release time (.2) plus \$1000), AY 2007-2008.

*Integrating Technology into Middle School Science Instruction in Alabama Schools: a Collaborative Effort.* (Co-I). A project funded by the Alabama Commission on Higher Education. (\$117,000), FY 2002.

*Making Science Matter.* (Participant). A project funded by the Howard Hughes Medical Institute to strengthen undergraduate education and foster an interest in science and careers in science among middle and high school students (\$1.6 Million), FY 1998-2002.

Awards:

National Distance Education Teacher of the Year Award from the United States Distance Learning Association. Honored for *Excellence in Distance Teaching, K-12* for my work with *Integrated Science*, 2000.

SJSU Lurie College of Education *Excellence and Equity in Education* Dean's Award. Honored for raising the profile of the College of Education through collaboration with members of other departments and colleges on campus, 2009.

Hamilton Chemistry Scholarship, Auburn University, 1987.

Professional Affiliations:

American Educational Research Association  
California Science Teachers Association  
Mid South Educational Research Association  
National Middle School Teachers Association  
National Science Teachers Association  
National Association of Research in Science Teaching  
Society for Information Technology and Teacher Education