

**MICHAEL PAUL MUELLER**

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Mathematics and Science Education  
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**EDUCATION**

**Ph.D., Science Education and Philosophy of Education**, *The University of Tennessee, Knoxville, Tennessee, 2007*  
Dissertation: *A philosophical analysis of Chet Bowers' ethical theory of ecojustice: Shifting towards uncertainty thinking in science education*, Prof. Barbara J. Thayer-Bacon, Chair.

**M.A., Curriculum and Instruction**, *Ottawa University, Kansas City, Kansas, 2004*

**B.Sc., Metropolitan State University, Saint Paul, Minnesota, 1998**

**Diploma**, *Eagan High School, Eagan, Minnesota, 1993*

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**HONORS AND AWARDS**

**Jack Freeland Memorial Award**, *Tennessee Press Association, Knoxville, Tennessee, 2007*

**Eddie Griffin Memorial Award for Outstanding Position Paper**, *SASTE, Athens, Georgia, 2005*

**Teacher of the Year**, *Westside Impact, Phoenix, Arizona, 2004*

**Excellence in Education Award**, *Tolleson Education Association, Avondale, Arizona, 2002*

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**ACADEMIC AND PROFESSIONAL EXPERIENCE**

**Assistant Professor**, *Mathematics and Science Education, The University of Georgia, Athens, Georgia, 2007-*

*ESCI 3450 Practicum in Science Education*

*ESCI 6100/4100 Laboratory Teaching Internship*

*ESCI 6200 Science, Technology and Society*

*ESCI 6450/4450 Science Curriculum and Instruction*

*ESCI 6460/4460 Methods of Science Teaching*

*ESCI 7000/7650/7300 Master's Research, Project, and Thesis*

*ESCI 7080 Curriculum Planning in Science Education*

*ESCI 8990 Research Seminar in Science Education*

*ESCI 9600 Educational Research in Science Education*

**Assistant Professor**, *Teacher Education, Roane State Community College, Harriman, Tennessee, 2004-2007*

**Earth Science Teacher**, *Westview High School, Avondale, Arizona, 2002-2004*

**Long-term Substitute Teacher**, *Cheyenne Elementary, Peoria, Arizona, 2001-2002*

**Reserve Petty Officer 2<sup>nd</sup> Class**, *United States Coast Guard, San Diego, California, 2000-2008*

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**RESEARCH INTERESTS**

*Ecoeducational theory to guide ecojustice, citizen science, ecological schools, science education, and youth activism*

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***PUBLICATIONS***

*Books and Chapters in Books:*

- Stewart, A.J., & Mueller, M.P. (book, in preparation). *The art of teaching science with essential questions*.
- Mueller, M.P., & Zeidler, D.L. (2010, in preparation). Moral-ethical character and science education: Ecojustice ethics through socioscientific issues (SSI). In D. Tippins, M. Mueller, M. van Eijck & J. Adams (Eds.), *Cultural studies and environmentalism: The confluence of ecojustice, place-based (science) education, and indigenous knowledge systems* (pp. 00-00). New York: Springer.
- Mueller, M.P., & Tippins, D.J. (2010, in preparation). Ecodemocracy and school science: Of ecojustice, indigenous knowledge systems and a sense of place. In D. Tippins, M. Mueller, M. van Eijck & J. Adams (Eds.), *Cultural studies and environmentalism: The confluence of ecojustice, place-based (science) education, and indigenous knowledge systems* (pp. 00-00). New York: Springer.
- Tippins, D.J., Mueller, M.P., van Eijck, M., & Adams, J. (2010, in preparation). The need for cultural studies and environmentalism in science education: Why ecojustice, indigenous knowledge systems and a sense of place (as sociocultural theory and opportunity). In D. Tippins, M. Mueller, M. van Eijck & J. Adams (Eds.), *Cultural studies and environmentalism: The confluence of ecojustice, place-based (science) education, and indigenous knowledge systems* (pp. 00-00). New York: Springer.
- Tippins, D.J., Mueller, M.P., van Eijck, M., & Adams, J. (Eds.). (2010, in preparation). *Cultural studies and environmentalism: The confluence of ecojustice, place-based (science) education, and indigenous knowledge systems*. New York: Springer.
- Mueller, M.P., & Tippins, D.J. (2010, in press). Citizen science, ecojustice, and science education: Rethinking an education from nowhere. In B.J. Fraser, K. Tobin, & C. McRobbie (Eds.), *Second international handbook of science education* (pp. 00-00). New York: Springer.
- Tippins, D.J., & Mueller, M.P. (2009). As if local people and places mattered: A relational, ecological pragmatist framework to guide projects of rural science education. In W.M. Roth & K. Tobin (Eds.), *The world of science education: Handbook of research in North America* (pp. 529-542). Rotterdam: Sense.

*National and International Peer-reviewed Journal Articles:*

- Mueller, M.P., & Pickering, J. (forthcoming). Bee Hunt! An authentic science project for buzzing biodiversity.
- Mueller, M.P., & Tippins, D.J. (2009). van Eijck and Roth's utilitarian science education: Why the recalibration of science and traditional ecological knowledge invokes multiple perspectives to protect the sciences from being exclusive. *Cultural Studies of Science Education*.
- Mueller, M.P. (2009). On ecological reflection: The tensions of cultivating ecojustice and youth environmentalism. *Cultural Studies of Science Education*. DOI: 10.1007/s 11422-009-9222-5
- Mueller, M.P. (2009). Educational reflections on the "ecological crisis": Ecojustice, environmentalism, and sustainability. *Science & Education*, 18(8), 1031-1055.
- Mueller, M.P., & Bentley, M.L. (2009). Environmental and science education in "developing nations": A Ghanaian approach to renewing and revitalizing the local community and ecosystems. *Journal of Environmental Education*, 40(4), 53-64.
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**PUBLICATIONS***(continued)*

Mahaya, E., Tippins, D.J., Mueller, M.P., & Thomson, N.E. (2009). Infectious disinfection! Exploring global water quality. *Science Activities*, 46(2), 25-31.

Mueller, M.P., & Bentley, M.L. (2007). Beyond the “decorated landscapes” of educational reform: Towards landscapes of pluralism in science education. *Science Education*, 91(2), 321-338.

Mueller, M.P., & Valderrama, P. (2006). Crater Appeal. *Science Teacher*, 73(5), 22-25.

Essay Review:

Mueller, M.P. (2008). Ecojustice as ecological literacy is much more than being “green!” A philosophical review of Chet Bowers’ *Transforming environmental education: Making the cultural and environmental commons the focus of educational reform. Implications for commons education. Educational Studies*, 44(2), 155-166.

Article rejoinder: Bowers, C.A. (2008). More than being green. A response to Mike Mueller’s review of *Transforming environmental education: Making the cultural and environmental commons the focus of educational reform. Educational Studies*, 44(3), 301-306.

Regional and State Peer-reviewed Journal Articles:

Mitchell, D., & Mueller, M.P. (2008). The role of ecological literacy in middle school learning communities. *Tennessee Association of Middle Schools Journal*, 39, 1-9.

Mueller, M.P., Collins, R.L., & Qualls, D.S. (2008). Interdisciplinary middle school teaching in math, science, and social studies through its aesthetic appeal. *Becoming: Journal of the Georgia Association of Middle Schools*, 19(1), 41-47.

Mueller, M.P. (2007). Integrating ecojustice in middle school science education. *Tennessee Association of Middle Schools Journal*, 37, 7-13.

Mueller, M.P. (2006). Fostering eco-consciousness through sciencesthetics in middle schools. *Tennessee Association of Middle Schools Journal*, 35, 3-11.

Mueller, M.P., & Bentley, M.L. (2005). An aesthetic approach to teaching middle school science. *Tennessee Association of Middle Schools Journal*, 33, 2-7.

Other Publications for a Community Audience:

Mueller, M.P. (2009). Citizen science can renew a child’s love for nature. *Education.com*. Retrieved April 22, 2009 from <http://www.education.com/reference/article/citizen-science-childrens-love-nature/#>

Dollar, A., McCarter, T., Ball, M.V., King, P., Light, K.H., Mueller, M.P., Nicely, T., Pfeffer, J., Rivero, R.E., Saito, T., & Sankey, Y.K. (2006). *Nature explorers: News Sentinel science curriculum*. Knoxville: News Sentinel Press.

Mueller, M.P. (Ed.). (2006). *Symposium on powerful teaching: Vol. 1*. Harriman: Roane State Community College.

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**PUBLICATIONS***(continued)**Proceedings Publications:*

Mueller, M.P. (2008). Groundwork for ecojustice: Exploring the cultural myth of ecological crisis. *Proceedings of the 2008 Annual Conference of the American Educational Research Association, USA*, 261[43.021].

Mueller, M.P. (2006). Educational democracy: Fostering the social imagination. In J. Cao & J. Spirko (Eds.), *Proceedings of the 11<sup>th</sup> Annual Conference of the Southeastern Association of Educational Studies*. Knoxville: University of Tennessee.

*Abstract Publications:*

Mueller, M.P., & Love, K. (2009). Chet Bowers' "Transforming environmental education: Making the renewal of the cultural and environmental commons the focus of educational reform": Implications for teachers [Abstract]. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education*.

Mueller, M.P. (2009). A guiding framework for taking action in the local community and ecosystems: Methods of science teaching that prepare teachers to engage in ecojustice activism [Abstract]. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education*.

Mueller, M.P., & Carroll, G.D. (2009). Exploring the community-ecology-education (CEE) movement in science education: Teaching methods that prepare local science teachers to engage students in ecojustice [Abstract]. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education*.

Eick, C.J., Tippins, D.J., Brown, S., Smolleck, L., Koehler, C., & Mueller, M.P. (2009). Science education scholarship for new professors: Defining and doing it for successful promotion and tenure [Abstract]. *Proceedings of the 2009 International Conference of the Association for Science Teacher Education*.

Mueller, M.P. (2008). The case for Chet Bowers' ecojustice philosophy in science education [Abstract]. *Proceedings of the 2008 International Conference of the Association for Science Teacher Education*.

Mueller, M.P. (2006). Has science education in developing countries been hampered by Western influence [Abstract]? *Proceedings of the College of Education, Health, and Human Sciences Graduate Student Colloquium, USA*, 2(1), 9.

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**PRESENTATIONS***National and International Conventions:*

Cajigal, A.R.V., Tippins, D.J., & Mueller, M.P. (2010, March). *An examination of ethical decision making of beginning secondary science teachers through citizen science methods*. Paper to be presented at the annual meeting of the National Association of Research in Science Teaching, Philadelphia, PA.

Cajigal, A.R.V., Tippins, D.J., & Mueller, M.P. (2010, January). *Exploring ethical decision making of preservice science teachers through citizen science methods*. Paper to be presented at the annual meeting of the Association for Science Teacher Education, Sacramento, CA.

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**PRESENTATIONS***(continued)*

- Mueller, M.P., Rowe, B., Love, K., Bentley, M.L., & Pagan, T.W. (2009, November). *Ecojustice perspectives: Environmentalism, food culture, and river advocacy*. Panel session to be presented at the annual meeting of the American Educational Studies Association, Pittsburgh, PA.
- Mueller, M.P. (2009, April). *Way beyond cultural neutrality: Preparing teachers to think about justice, morals, and right relationships in science education*. Invited symposium (*Eco-justice in and through science education: A community discussion*) paper presented at the annual meeting of the National Association of Research in Science Teaching, Anaheim, CA.
- Mueller, M.P., & Love, K. (2009, January). *Chet Bowers' "Transforming environmental education: Making the renewal of the cultural and environmental commons the focus of educational reform": Implications for teachers*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Eick, C.J., Tippins, D.J., Brown, S., Smolleck, L., Koehler, C., & Mueller, M.P. (2009, January). *Science education scholarship for new professors: Defining and doing it for successful promotion and tenure*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Mueller, M.P. (2009, January). *A guiding framework for taking action in the local community and ecosystems: Methods of science teaching that prepare teachers to engage in ecojustice activism*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Mueller, M.P., & Carroll, G.D. (2009, January). *Exploring the community-ecology-education (CEE) movement in science education: Teaching methods that prepare local science teachers to engage students in ecojustice*. Paper presented at the annual meeting of the Association for Science Teacher Education, Hartford, CT.
- Mueller, M.P., & Tippins, D.J. (2008, October). *A citizen-science movement for community life in the twenty-first century*. Paper presented at the annual meeting of the American Educational Studies Association, Savannah, GA.
- Mueller, M.P., Tippins, D.J., Pagan, T.W., Cajigal, A.R.V., Hodges, G.W., Britton, S.A., & Wilson, R.E. (2008, October). *Beyond an education of nowhere: Advocacy, ecojustice, and uncertainty*. Panel session presented at the annual meeting of the American Educational Studies Association, Savannah, GA.
- Pagan, T.W., & Mueller, M.P. (2008, October). *Do rivers have rights? River advocacy and uncertainty*. Paper presented at the annual meeting of the North American Association of Environmental Education, Wichita, KS.
- Carroll, G. D., Mueller, M.P., Shelton, J.L., & Jackson, R. (2008, October). *Ecojustice, uncertainty, and teachers of Georgia's Satilla watershed*. Paper presented at the annual meeting of the North American Association of Environmental Education, Wichita, KS.
- Mueller, M.P. (2008, July). *The moral and ethical consequences of engaging youth in scientific inquiry: Implications for strengthening communities through ecojustice and science education*. Paper presented at the 2008 Provoking Research ProVoking Communities Conference, Windsor, OT, Canada.
- Mueller, M.P. (2008, March). *Groundwork for ecojustice: Exploring the local authority of the commons*. Poster presented at the annual meeting of the American Educational Research Association, New York, NY.
- Mueller, M. P. (2008, March). *Groundwork for ecojustice: Exploring the cultural myth of ecological crisis*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
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**PRESENTATIONS***(continued)*

- Mueller, M.P. (2008, January). *The case for Chet Bowers' ecojustice philosophy in science education*. Paper presented at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Mueller, M.P., & Valderrama, P. (2007, March). *Mars student imaging project: Conducting inquiry-based authentic research*. Paper presented at the annual meeting of the National Science Teachers Association, St. Louis, MO.
- Mueller, M.P. (2007, January). *Beyond Earth Day: Cultivating environmental care, connection, and community through a service learning project in teacher education*. Poster presented at the annual meeting of the Association for Science Teacher Education, Clearwater, FL.
- Mueller, M.P. (2006, November). *The symposium on powerful teaching: A contextual learning approach to professional development*. Paper presented at the annual meeting of the National Tech Prep Network, Dallas, TX.
- Mueller, M.P. (2006, July). *Add the arts and mix! Using a sciencesthetics approach to expand and enhance students' exploration and inquiry skills in science education*. Paper presented at the 2006 4<sup>th</sup> International Conference on Imagination and Education, Imaginative Education Research Group, Vancouver, BC, Canada.
- Mueller, M.P. (2006, July). *An imagined conversation with Benjamin Franklin on the challenges of an education for democracy*. Paper presented at the summer conference of the Association of Teacher Educators, Philadelphia, PA.
- Mueller, M.P., & Bentley, M.L. (2006, July). *Fostering cultural and ecological sustainability through science education*. Paper presented at the summer conference of the Association of Teacher Educators, Philadelphia, PA.
- Regional and State Conventions:*
- Carroll, G.D., Mueller, M.P., & Saul, B.M. (2009, April). *Empowering students by engaging teachers in watershed science*. Paper presented at the annual meeting of the Georgia Water Resources Conference, Athens, GA.
- Carroll, G.D., & Mueller, M.P. (2009, March). *Using citizen science as a tool to improve inquiry based learning and student activism*. Paper presented at the annual meeting of the Georgia Environmental Education Conference, Tifton, GA.
- Mueller, M.P. (2008, October). *Citizen science and ecojustice: Two challenges for preparing science teachers*. Paper presented at the annual meeting of the Southeastern Association for Science Teacher Education, Columbia, SC.
- Mueller, M.P. (2006, October). *Why the "decorated landscapes" of educational reform endanger future generations and their livelihoods*. Paper presented at the annual meeting of the Southeastern Association for Science Teacher Education, Macon, GA.
- Mueller, M.P., & Sankey, Y.K. (2006, April). *The newspaper in education program*. Paper presented at the 2006 Symposium on Powerful Teaching, Harriman, TN.
- Mueller, M.P. (2006, April). *Mapping Mars from the classroom*. Paper presented at the 2006 Symposium on Powerful Teaching, Harriman, TN.
- Mueller, M.P. (2006, March). *Has science education in developing countries been hampered by Western influence?* Poster presented at the annual College of Education, Health, and Human Services Graduate Colloquium, Knoxville, TN.
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**PRESENTATIONS**  
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- Mueller, M.P. (2006, February). *Educational democracy: Fostering the social imagination*. Paper presented at the annual meeting of the Southeastern Association of Educational Studies, Knoxville, TN.
- Mueller, M.P. (2006, February). *Introducing sciencethetics: Expanding students' exploration and inquiry skills with aesthetic language in science education*. Paper presented at the annual meeting of the Southeast Philosophy of Education Society, Decatur, GA.
- Mueller, M.P. (2005, October). *Traveling on aesthetic journeys of experience in science education*. Paper presented at the annual meeting of the Southeastern Association for Science Teacher Education, Athens, GA.
- Mueller, M.P. (2005, October). *Sciencethetics: An aesthetic way of knowing in science teacher education*. Paper presented at the annual meeting of the Southeastern Association for Science Teacher Education, Athens, GA.
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**INVITED LECTURES AND WORKSHOPS**

- Mueller, M.P. (2009, July). *Advanced inquiry, citizen science, and participatory action research*. US Department of Energy Academies Creating Teacher Scientists (ACTS) teacher professional development program at Oak Ridge National Laboratory, Oak Ridge, TN.
- Mueller, M.P. (2009, June). *Inquiry, nature of science, and the national science education standards*. US Department of Energy Academies Creating Teacher Scientists (ACTS) teacher professional development program at Oak Ridge National Laboratory, Oak Ridge, TN.
- Mueller, M.P. (2008, June). *Exploring Mars, classroom inquiry, and sustainability*. US Department of Energy 9-12 Science Education Workshop at Oak Ridge National Laboratory, Oak Ridge, TN.
- Mueller, M.P. (2007, June). *Integrating Mars into the classroom through sciencethetics*. US Department of Energy 9-12 Science Education Workshop at Oak Ridge National Laboratory, Oak Ridge, TN.
- Mueller, M.P. (2006, July). *Integrating Mars into the classroom through sciencethetics*. US Department of Energy 9-12 Science Education Workshop at Oak Ridge National Laboratory, Oak Ridge, TN.
- Mueller, M.P. (2005, August). *Integrating Mars into the classroom through sciencethetics*. US Department of Energy 9-12 Science Education Workshop at Oak Ridge National Laboratory, Oak Ridge, TN.
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**FUNDED PROJECTS**

*University of Georgia's Satilla River Watershed Program: A Model for Understanding Georgia's Natural Resources and Developing Ecological Relationships* (Submitted; Funded 2009). Improving Teacher Quality Grants Program, The University of Georgia/Warnell School of Forestry and Natural Resources, James Shelton (PI), Todd Rasmussen (Co-PI), Michael Mueller (Co-PI), and G. Denise Carroll (Co-PI), \$34,923.

*STEM Learning Community: Georgia Citizen Science Education Network* (Submitted; Funded 2008). STEM Small Grants Program, The University of Georgia/Mathematics and Science Education, Michael Mueller (PI), \$2,000.

*Ethical Decision-Making in the Education of Future Science Teachers: Exploring the Nature of Science through Popular Culture Videocases* (Submitted; Funded 2008). STEM Small Grants Program, The University of Georgia/Mathematics and Science Education, Deborah Tippins (PI), Michael Mueller (Co-PI), Anne Shenk (Co-PI), and G. Denise Carroll (Co-PI), \$7,980.

*Community Development and Service Learning: The UGA Costa Rica Integrated Farm System* (Submitted; Funded 2008). 2008 Scholarship of Engagement, The University of Georgia/Warnell School of Forestry and Natural Resources, Kris Irwin (PI), James Shelton (Co-PI), and Michael Mueller (Co-PI), \$5,500.

*Northeast Georgia Watershed Explorers Program: A Proposal for Early Career Faculty Grant Development* (Submitted; Funded 2008). COE Faculty Grant Development Program, The University of Georgia/Mathematics and Science Education, Michael Mueller (PI), \$6,838.50.

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**COURSE DEVELOPMENT**

*ESCI(EFND) 8310 Inquiry of EcoJustice Issues (Science Education and Educational Foundations)*

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**EDITORIAL BOARDS AND REVIEW ACTIVITIES**

*American Educational Research Association, Reviewer, 2007*

*Association for Science Teacher Education, Reviewer, 2007*

*Cultural Studies of Science Education, Editorial Board, 2009-*

*Educational Studies: A Journal of AESA, Reviewer, 2006-*

*Environmental Education Research, Reviewer, 2008*

*Improving Teacher Quality Grants Program, Reviewer, 2008*

*North American Association of Environmental Education, Reviewer, 2008*

*Science Education, Reviewer, 2008*

*Springer, Book Manuscript: "Progressing Science Education", Reviewer, 2008*

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**UNIVERSITY ACTIVITIES**

*Education Club, Roane State Community College, 2004-2007*  
*Science Education Synergy Colloquia, The University of Georgia, 2007-2008*  
*Secondary Science Education Committee, The University of Georgia, 2007-2010*  
*The Academy of the Environment at The University of Georgia, 2007-2010*  
*The Graduate Student Research Conference Committee, The University of Georgia, 2009*

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**MENTORING ACTIVITIES**

*Doctoral Committee Member, Mindy Edelson, in progress*  
*Doctoral Committee Member, Jennifer Lance Atkinson, in progress*  
*Educational Specialist Committee Member, Brandon Mitchell, 2009*  
*Educational Specialist Committee Member, Donna Gast, 2009*  
*Master's Thesis Committee Chair, Debbie Mitchell, 2009: "A philosophical analysis of David Orr's theory of ecological literacy: Biophilia, ecojustice and moral education in middle school learning communities"*  
*Teaching Internship, Jennifer Lance Atkinson (ESCI 7080 Second Summer Session), 2009*  
*Independent Study, Rachel Luther (philosophical research), 2009*  
*Independent Study, Aris Cajjgal (qualitative research methods), 2009*  
*Independent Study, Debbie Mitchell (philosophical research methods), 2008, 2009*  
*Independent Study, Joy Dike (philosophical-historical research methods), 2008*  
*Independent Study, Stacey Britton (theory writing), 2008*

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**COMMUNITY SERVICE**

*Development of the GEORGIA CITIZEN SCIENCE EDUCATION NETWORK (GCSEN), 2008-2010*  
*Parent Volunteer for Oconee County Parks and Recreation (Youth Soccer), 2008*  
*Volunteer for the American Red Cross Blood Donation Center, 2009*

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**CONSULTING**

*Environmental Education Program, Emory University, 2009*

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**PROFESSIONAL AFFILIATIONS**

*American Educational Research Association*  
*American Educational Studies Association*  
*Association for Science Teacher Education*  
*National Association for Research in Science Teaching*  
*National Science Teachers Association*  
*Southeastern Association for Science Teacher Education*

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