

Curriculum Vitae

Malcolm B. Butler

College of Education
University of South Florida St. Petersburg
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EDUCATION

- | | |
|------|---|
| 1995 | Ph.D., Curriculum and Instruction, Science Education
University of Florida |
| 1991 | M.Ed., Curriculum and Instruction, Secondary Science Education
University of Florida |
| 1989 | B.S., Physics
Southern University, Baton Rouge, Louisiana |

PROFESSIONAL WORK EXPERIENCE

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|---------------|--|
| 08/08-Present | Associate Professor of Science Education (with tenure)
University of South Florida St. Petersburg |
| 08/06-Present | Adjunct Assistant Professor and Graduate Faculty Member
University of Georgia |
| 08/06-7/08 | Assistant Professor of Science Education
University of South Florida St. Petersburg |
| 08/01-08/06 | Assistant Professor of Science Education
University of Georgia
Appointed to Graduate Faculty, November 14, 2001 |
| 09/99-07/01 | Program Specialist
Southeast Eisenhower Consortium for Mathematics and Science
Education @ SERVE, Atlanta, Georgia |
| 08/95-07/99 | Assistant Professor of Science Education
Texas A&M University-Corpus Christi |
| Summer 1995 | Physics Instructor
All Arts and Sciences Camp, University of North Carolina- Greensboro |
| 10/94-06/95 | Science Instructor |

Project Reclaim, Williamsburg-James City County Public Schools and
School of Education, College of William and Mary, Williamsburg, VA

1991-1992 Science and Mathematics Instructor
P.K.Yonge Developmental Research School, Gainesville, FL

Summer 1993 Graduate Teaching Assistant
Department of Instruction and Curriculum, University of Florida

1992-1993 Coordinator
Project Fostering Our Community's Understanding of Science (FOCUS),
Department of Aeronautical Engineering, Mechanics and Engineering
Sciences, University of Florida

1991-1992 Science and Mathematics Instructor
Newberry Junior/Senior High School, Newberry, FL

09/91-12/91 Volunteer Assistant Basketball Coach
Newberry Junior/Senior High School, Newberry, FL

Summer 1991 Co-Coordinator
Students Taking Academics and Responsibility Seriously (STARS)
Program, Office of Recruitment and Outreach, College of Education,
University of Florida

Summer 1991 &
Summer 1990 Summer Research Apprenticeship Program (SRAP) Mentor
Graduate School and Minority Programs, University of Florida

01/90-05/91 Volunteer Tutor
Academic Achievement Project, Department of Psychology, University
of Florida in cooperation with Mt. Olive A.M.E. Church, Gainesville, FL

SCHOLARLY ACTIVITIES

Publications

Refereed Papers

Atwater, M. M, Freeman, T. B., Butler, M. B., & Draper-Morris, J. (2010). A case study of science teacher candidates' understandings and actions related to the culturally responsive teaching of 'Other' students. *The International Journal of Environmental and Science Education*, 5(3), 287-318.

Lawrence, M. N., & Butler, M. B. (2010). Becoming aware of the challenges of helping students learn: An examination of the nature of learning during a service-learning experience. *Teacher Education Quarterly*, 37(1), 155-175.

Seung, E., Bryan, L., & Butler, M. B. (2009). Improving preservice middle grades science teachers' understanding of the nature of science using three instructional approaches. *Journal of Science Teacher Education*, 20(2), 157-177.

Butler, M. B., & Nesbit, C. (2008). Using science notebooks to improve writing skills and conceptual understanding. *Science Activities*, 44(4), 137-146.

Lee, S., Butler, M. B, & Tippins, D. J. (2007). A case study of an early childhood teacher's perspective on working with English Language Learners. *Journal of Multicultural Education*, 15(1), 43-49.

Parlo, A. T., & Butler, M. B. (2007). Impediments to environmental education instruction in the classroom: A post-workshop inquiry. *International Journal of Environmental and Science Education*, 2(1). 32-37.

Butler, M. B., Lee, S., & Tippins, D. J. (2006). Case-based pedagogy as an instructional strategy for understanding diversity: Preservice teachers' perceptions. *Multicultural Education*, 13(3), 20-26.

Hutchison, C., Butler, M. B., & Fuller, S.M. (2005). Pedagogical communication issues arising during international migrations to teach science in America. *Electronic Journal of Science Education*, 9(3). ISSN 1087-3430

Butler, M. B. (2000). Science education library resources for preservice elementary teachers in Texas. *The Texas Science Teacher*, 29(2), 47-49.

Butler, M. B. (1999). Factors associated with students' intentions to engage in science learning activities. *Journal of Research in Science Teaching*, 36, 455-473.

Books

Atwater, M. M., Russell, M., & Butler, M. B. (under contract). *Multicultural science education: preparing teachers for equity and social justice*. The Netherlands: Springer.

Nutta, J., Bautista, N., & Butler, M. B. (2011). *Teaching science to English Language Learners*. New York: Routledge.

Tippins, D., Thomson, N., Butler, M., Fowler, L., & Lawrence, M. (Eds.). (2006). *Environmental dilemmas in Georgia: Considering alternative solutions*. Athens, GA: Partnership for Reform in Science and Mathematics (PRISM) and National Science Foundation.

Book Chapters

Butler, M. B. (Accepted). Teaching to the Bottom. In J. Settlage & S. Sutherland, *Teaching science to every child: Using culture as a starting point, (2nd edition)*. New York: Routledge.

Riley, J. P., Butler, M. B., Aun, T. K., & Chin, Y. K. (2008). Science misconceptions in the service of conceptual change: Intervention studies with preservice primary teachers. In Lee, Y. J., & Tan, A. L. (Eds.) (pp. 45-64). *Science education at the nexus of theory and practice*. Rotterdam, the Netherlands: Sense Publishers.

Butler, M. B. (2007). Just how universal are science process skills? In J. Settlage & S. Sutherland, *Teaching science to every child: Using culture as a starting point*. New York: Routledge.

Atwater, M. M., & Butler, M. B. (2006). The professional development of teachers of science in urban schools. In J. Kincheloe, K. Hayes, K. Rose, & P. Anderson, (Eds.), *The Praeger handbook of urban education*, (pp.153-161). Westport, CT: Praeger Publishers.

Butler, M. B., Riley, J. P., Toh, K. A., Yap, K. C., Lee, Y. J. (2006). Action research on primary teachers' physical science misconceptions, In H. S. Dhindsa, I. J. Kyeleve, O. Chukwu, S. B. Lim, Z. B. Taha, et al. (Eds.), *Shaping the future of science, mathematics, and technical education* (pp. 62-66). Brunei Darussalam: Universiti Brunei Darussalam.

Butler, M. B. & Koballa, T. R. (2003). If only I had known about the plasma. In T. R. Koballa & D. J. Tippins (Eds.), *Cases in middle and secondary science education (2nd ed.)*. (pp. 88-96). New Jersey: Prentice Hall.

Curriculum Materials

National Geographic Society. (2010). *National Geographic Science and Literacy (K-5)*. Carmel, CA: National Geographic School Publishing and Hampton-Brown. Program Authors: R. Bell, M. B. Butler, N. K. Duke, J. Lederman, D. W. Moore, & K. C. Trundle.

Conference Proceedings (Refereed Papers)

Butler, M.B. (2008). Paradoxes, paradigms, and purpose. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference*. (pp. 20-21). Alta, UT: National Science Foundation [Available online at www.sciedxroads.org/proceedings2008.html]

Butler, M.B. (2007). The invisible science educator. In J. Settlage & A. Johnston (Eds.), *Proceedings of the Science Education at the Crossroads Conference*. (pp. 18-19). Amherst, MA: National Science Foundation. [Available online at: www.sciedxroads.org/proceedings2007.html]

Non-refereed Journal Articles

Inyega, J.O., Thomson, N., Butler, M. B., & Inyega, H. N. (2010, July). In-service teachers' classroom practices and experiences. *The Fountain: Journal of Education Research*, University of Nairobi, Kenya, 4(1), 1-21.

Butler, M. B. (2001). In the Southeast: Students do! Students write! Students learn! *ENC Focus*, 8(1), 46.

Butler, M. B. (2000). You teach teachers how to teach science? *Radiations*, 6(1), 9-10.

Commissioned Report

Butler, M. B. (2003). *Can science notebooks impact teaching and learning in north Alabama Schools? A study of the HASP science notebook project*. A commissioned report submitted to the Southeast Eisenhower Regional Consortium for Mathematics and Science Education @ SERVE, Tallahassee, FL.

Book Review

Butler, M.B. (2007). Review of the book *Preparing mathematics and science teachers for diverse classrooms: Promising strategies for transformative pedagogy*. *The Journal of Negro Education*, 76(1), 89-90.

Contributing Authorships

Southeast Eisenhower Regional Consortium for Mathematics and Science Education @ SERVE. (2002). *The common denominator*, 6(2).

Southeast Eisenhower Regional Consortium for Mathematics and Science Education @ SERVE. (2002). *The common denominator*, 6(1).

Southeast Eisenhower Regional Consortium for Mathematics and Science Education @ SERVE. (2003). *A survey of mathematics and science reform in the southeast: A landscape paper*. Tallahassee, FL: SERC @ SERVE.

Krueger, A., & Sutton, J. (Eds.). (2002). *EDThoughts: What we know about mathematics teaching and learning*. Aurora, CO: Mid-continent Research for Education and Learning.

Krueger, A., & Sutton, J. (Eds.). (2001). *EDThoughts: What we know about science teaching and learning*. Aurora, CO: Mid-continent Research for Education and Learning.

ERIC (Education Resources Information Center) Document

Butler, M. B. (2001). Children's literature with a science emphasis: Ten teacher-developed k-8 activity packets. ERIC Document Reproduction Service No. ED455090

Commissioned Paper

Butler, M. B. (2009). Motivating young students to be successful in science: Keeping it real, relevant and rigorous. National Geographic & Hampton-Brown Publishing. Available at: http://www.ngsp.com/Portals/0/downloads/SCL22-0419A_AM_Butler.pdf

Manuscripts under Review

Freeman, T. B, Atwater, M. M., Draper-Morris, J., & Butler, M. B. (2010). An analysis of preservice science teachers' ideas about culture, race, ethnicity, and science teaching. *The Journal of Women and Minorities in Science and Engineering*.

Manuscripts in Progress

Johnston, A., Butler, M., Mensah, F. M., & Williams, B. Scientists at play: Models for engaging communities with science. Target Journal: *Children, Youth and Environments*.

Butler, M. B. Elementary teacher candidates' knowledge about and attitudes toward science. Target Journal: *Journal of Elementary Science Education*.

Butler, M.B. Teacher candidates' experiences with Family Fun Science Nights. Target Journals: *Journal of Elementary Science Education*, *Journal of Teacher Education*, *Journal of Science Teacher Education*.

Funded Grants

External

Collaborative Research Project: School Organization and Science Achievement. (\$2.9 million). National Science Foundation. July 2011-June 2013.
Principal Investigators: Malcolm B. Butler & John Settlage.

The African Diaspora: Developing Black Scholars in Science Education for the 21st Century in the United States (A Symposium). (\$100,000). National Science Foundation. September 2008-June 2010.

Principal Investigators: M.M. Atwater, M.B. Butler, & E.C. Parsons.

UPTAQ (Understanding the Profile of Tampa Bay's Aquatic Quality). (\$113,920). Part of USF St. Petersburg's C-SPACE funding from Environmental Protection Agency.

Principal Investigators: K. Carvalho-Knighton, A. Pyrtle, & Malcolm B. Butler.

MS PHD's classroom and community engagement and mentoring program: A track 1 project. (\$77,000). National Science Foundation. June 2007.

Principal Investigators: A. Pyrtle, M.B. Butler, V. Williamson-Whitney, & V. Fueyo.

C.O.A.S.T.L.I.N.E.S. 2007. (\$60,000). Georgia Improving Teaching Quality Program funded by the US Department of Education, Summer 2007.

Principal Investigators: M. Butler & B. Williams.

Rivers to Reefs 2006 (\$56,321). Georgia Improving Teaching Quality Program funded by the US Department of Education, Summer 2006.

Principal Investigators: M. Butler & B. Williams.

Enhancing elementary preservice teachers' understanding of physical science through science notebooks (\$4,000). Northeast Georgia PRISM Professional Network Small Grants Program. 2005-2006. Principal Investigator: M.B. Butler.

COASTLINES 2005 (\$52,000). Georgia Improving Teaching Quality Program funded by the US Department of Education, Summer 2005.

Principal Investigators: B. Williams & M. Butler.

Koalaty science notebooks @ Whitehead Elementary School, Clarke County, Georgia. (\$4,750). Funded by the Southeast Eisenhower Regional Consortium for Mathematics and Science Education @ SERVE. 2005-2006.

Principal Investigators: D. Manzy & M.B. Butler.

Rivers to Reefs 2004 (\$48,800). Georgia Eisenhower Professional Development Higher Education Program funded by the US Department of Education, Summer 2004.

Principal Investigators: B. Williams & M. Butler.

COASTLINES 2003 (\$45,000). Georgia Eisenhower Professional Development Higher Education Program funded by the US Department of Education, Summer 2003.

Principal Investigators: B. Williams, A. Frick, & M. Butler.

SAPELO: Scientists and Professional Educators Learning g Outdoors (\$41,472). Georgia Eisenhower Professional Development Higher Education Program funded by the US Department of Education, 2003-2004.

Principal investigators: M. Butler & P. Hembree.

Teaching Environmental Science Summer Course for Elementary Teachers (\$2,000). Texas General Land Office, Summer 1998.

Principal Investigators: E. Pearson-Hefty & M. Butler.

Teaching Environmental Science Summer Program for Elementary Teachers (\$25,000). Port Industries of Corpus Christi, Summers 1996, 1997, 1998, 1999.

Principal Investigators: E. Pearson-Hefty & M. Butler.

Internal

Come One, Come All: Community Science Night at Gulf Beaches Elementary (\$1,000). USF St. Petersburg Center for Civic Engagement Course Development Grant. Spring 2007.
Principal Investigator: M. B. Butler.

University of Georgia, College of Education, International Travel Grant (\$1,100). April 2005.

Preparing Elementary Teachers for Diversity: A Study of Student Teaching as Case-based Professional Development (\$3,100). GSTEP Research and Travel Mini-Grant College of Education, University of Georgia, Spring 2003.
Principal Investigators: D. Tippins, M. Butler, & S. Lee.

Faculty Research Enhancement Grant (\$3,500). College of Education, Texas A&M- Corpus Christi, Summer 1999.
Principal Investigator: M. Butler.

Grant Proposal Submitted

Collaborative Research and Development Project. (\$2,126,587) *School Structure and Science Success: Organization and Leadership Influences on Student Achievement*. Submitted to the National Science Foundation, January 2011.
Principal Investigators: J. Settlage and M. Butler.

Grant Proposal under Development

The Results of the African Diaspora: Developing Black Scholars in Science Education for the 21st Century in the United States. Target Funding Agency: National Science Foundation.
Principal Investigators: M. Atwater and M. Butler.

Research Project

2007-2009. Learning to learn about science teaching: Building analysis of practice into pre-service *teacher education*. This study was coordinated by LessonLab, Santa Monica, CA. This project was conducted in collaboration with over 30 universities in the US.

Conference Papers

Papers Presented at Professional Meetings

International Conferences

Riley, J. P., Yap, K. C., Toh, K. A., Boo, H. K., Ho, B. T. & Butler, M. (2006, November). *Physical science misconceptions: Moving from identification to intervention*. Paper presented at the International Science Education Conference, Singapore.

Butler, M., Riley, J. P., Toh, K.A., Yap, K.C. & Lee, Y. J. (2006, May). *Action research on primary teacher's physical science misconceptions*. Paper presented at the Eleventh international Conference on Science and Technical Education, University of Brunei, Darussalam.

Riley, J. P., Boo, H. K. Ho, B. T., Toh, K. A., & Yap, K. C., Butler, M. (2006, May). *The effect of peer discussion on primary teachers' willingness to abandon physical science misconceptions*. Paper presented at the Educational Research Association Meetings, Singapore.

Riley, J. P., Boo, H. K. Ho, B.T., Toh, K. A., & Yap, K. C., Butler, M., Hsiung, T. H., Hsiung, C. T. (2005, May). *Pre-service primary teachers' constructed knowledge of physical science concepts in Singapore, Taiwan and the U.S.* Paper presented at the International Conference on Education organized by Centre for Research in Pedagogy & Practice, National Institute of Education, Singapore.

Riley, J., Kwen, B.H., Tiong, H.B., Aun, T.K., Chin, Y.K., Butler, M., Tung-Hsing, H., & Chao-Ti, H. (2005, June). *Pre-service primary teachers' constructed knowledge of physical science concepts in Singapore, Taiwan and the US*. Paper presented at the conference on Redesigning Pedagogy, Singapore.

Butler, M.B. (2004, April). *A study of the utility of science notebooks in the elementary school classroom*. Paper presented at the international conference of the National Association for Research in Science Teaching, Vancouver, British Columbia, Canada.

Butler, M.B., Padilla, M.J., & Patterson, P.E. (2004, March). Involving US teachers in an international comparative study using Japanese science lesson videos. Paper presented at the International Consortium for Research in Science and Mathematics, Concepcion, Chile.

Butler, M.B., & Padilla, M. (2003, November). Japanese science lesson video study: An evaluation of four Japanese grade 8 science lessons by science teachers in the United States. Paper presented at the Japanese Science Lesson Video Study Meeting, Tokyo, Japan.

National Conferences

Butler, M.B., Hollon, R., Kein, K., Lane, P., Popejoy, K., Aram, R., Lawrence, M., Meyer, J., & Smith, D. (2009, April). *Developing a common research-based, words-to-images language: The ViSTA teacher educator community*. Paper presented at the national conference of the National Association for Research in Science Teaching, Garden Grove, CA.

Lawrence, M.N., & Butler, M.B. (2009, January). Wrestling with the complexity of facilitating student learning while planning a family science night: Reconsidering preconceptions and meanings made in more traditional contexts. Paper presented at the annual conference of the Association for Science Teacher Educators, Hartford, CT.

Thomson, N., Butler, M., Hodges, G., Governor, D., Hewitt, B., Atkinson, J., & Garbach, J. (2009, January). *Professional development workshops and science teacher retention: Tales from the field- what do teachers expect and need?* Paper presented at the annual conference of the Association for Science Teacher Educators, Hartford, CT.

Butler, M.B. (2008, October). *Paradoxes, paradigms, and purpose*. Paper presented at the annual meeting of Science Education at the Crossroads, Alta, UT.

Butler, M.B. (2007, September). *The invisible science educator*. Paper presented at the annual meeting of Science Education at the Crossroads, Amherst, MA.

Riley, J. P., Butler, M., Toh, K. A., Yap, K. C., Ho, B. T., & Boo, H. K. (2007, April). *The influence of peer discussion on preservice elementary teachers' physical science conceptions*. Paper presented at the annual conference of the National Association for Research in Science Teaching, New Orleans, LA.

Atwater, M. M., Freeman, T. B., Draper-Morris, J., & Butler, M. B. (2007, March). *Science teachers' ideas and actions related to the accommodation of students' culture, race, and ethnicity synopsis*. Presentation at the national conference of the National Science Teachers Association, St. Louis, MO.

Butler, M. B., Lawrence, M., Tippins, D., & Thomson, N. (2007, January). *University students as curriculum developers: An alternative worth pursuing*. Paper presented at the annual conference of the Association for Science Teacher Educators, Clearwater, FL.

Lawrence, M., Butler, M. B., Andrews, G., & Oliver, J. S. (2006, November). "Whoa! How Do I Get a Student to Understand?" Preservice teachers' learning during a one-on-one, content-focused early field experience. Paper presented at the annual conference of National Middle School Association, Nashville, TN.

Atwater, M. M., Butler, M. B., Freeman, T. B., Suriel, R., Watkins, W., & Holt, K. (2006, October). *Science teacher education and professional development: Critical multicultural education research*. Paper presented at the annual convention of the School Science and Mathematics Association, Missoula, MT.

Inyega, J., Butler, M. B., & Thomson, N. (2006, January). *A multi-site analysis of teachers'*

practices on the "mole concept" following professional development program. Paper presented at the annual conference of the Association for Science Teacher Educators, Portland, OR.

Morrison, J., Alonzo, A., Villanueva-Hay, M., Butler, M. B., & Nesbit, C. (2006, January). *Science notebooks: Investigating strategies for classroom use.* Paper presented at the annual conference of the Association for Science Teacher Educators, Portland, OR.

Parlo, A., & Butler, M. B. (2006, January). *Environmental education professional development: Limitations to the impact of teacher instruction.* Paper presented at the annual conference of the Association for Science Teacher Educators, Portland, OR.

Tippins, D. J., Thomson, N., & Butler, M. B. (2006, January). *Exploring the challenge of culturally relevant science education through metaphor and discourse.* Paper presented at the annual conference of the Association for Science Teacher Educators, Portland, OR.

Ogura, Y., Butler, M. B., Padilla, M., & Cresswell, J. (2005, April). *How do non-Japanese science teachers evaluate Japanese science lessons?* Paper presented at the annual conference of the National Association for Research in Science Teaching, Dallas, TX.

Riley, J., Butler, M. B., Toh, K. A., & Yap, K. C. (2005, April). *Preservice elementary teachers' physical science alternative conceptions: Across border and over time.* Paper presented at the annual conference of the National Association for Research in Science Teaching, Dallas, TX.

Morrison, J., Akerson, V. L., Black, K. M., Butler, M. B., Hand, B., & Yore, L. (2004, January). *Students' writing in science: Issues at the elementary and middle school levels.* Paper presented at the annual conference of the Association for the Education of Teachers of Science, Nashville, TN.

Butler, M. B., Padilla, M., Patterson, P., & Ogura, Y. (2004, January). *Involving U.S. teachers in an international comparative study using Japanese science lesson videos.* Paper presented at the conference of the Association for the Education of Teachers of Science, Nashville, TN.

Butler, M. B., & Riley, J.P. (2003, February). *The inclusion of science content in an elementary science methods class: A three-year study of a nettlesome issue.* Paper presented at the annual conference of the Association for the Education of Teachers of Science, St. Louis, MO.

Koballa, T. R., Atwater, M. M., Butler, M. B., Crawely, F. E., & Miles, R. (2002, April). *Professors, protégés, perspectives, and practices: A symposium on mentoring new faculty.* Paper Presented at the national conference of the National Association for Research in Science Teaching, New Orleans, LA.

Regional Conferences

Handa, V. C., Tippins, D. J., & Butler, M. B. (2006, February). *An ethnographic case study of community immersion experiences in science teacher education preparation.* Paper presented at the annual conference of the Southeastern Association of Educational Studies, Knoxville, TN.

Deaton, B., Minchew, C., Recesso, A., & Butler, M. B. (2005, October). *The use of direct evidence as a basis for reflection on practice.* Paper presented at the annual conference of the

Southeast Association for Science Teacher Education, Athens, GA.

Freeman, T. B., Atwater, M. M., & Butler, M. B. (2005, October). *Dreams of social justice? Preservice teachers' ideas about race, culture, ethnicity, and science teaching*. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Inyega, J., Butler, M. B., & Thomson, N. (2005, October). *Teaching high school electrochemistry: A multi-site analysis of teachers' practices following in-service programs*. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Minchew, C., Deaton, B., Butler, M. B., & Recesso, A. (2005, October). *Lessons learned: Reflections from a novice grant writer and professional development facilitator*. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Parlo, A. T., & Butler, M. B. (October, 2005). *Identifying limitations of the impact of a teacher workshop on classroom instruction*. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Seung, E., Bryan, L. A., & Butler, M. B. (2005, October). Preservice teachers' perceptions about the different instructional approaches of NOS used in a middle grades science methods course. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Staples, L., Pierce, G., Minchew, C., Deaton, B., Butler, M. B., & Recesso, A. (2005, October). *The teacher: Reflections from elementary science teachers on their participation in a professional development course*. Paper presented at the annual conference of the Southeast Association for Science Teacher Education, Athens, GA.

Parlo, A. T., & Butler, M. B. (2004, October). *Infusing science content in an elementary methods course: Feasible or futile?* Paper presented at the annual conference of the Southeastern Association for Education of Teachers in Science, Gainesville, FL.

Butler, M. B., Tippins, D., & Lee, S. (2003, May). *Preparing elementary teachers for diversity: A study of student teaching as case-based professional development*. Paper presented at the GSTEP Project Meeting. College of Education, The University of Georgia, Athens, GA.

Butler, M. B., Riley, J.P., & Garrett, M. (2001, October). *Science content in elementary methods courses: Issues and challenges*. Paper present at the annual conference of the Southeastern Association for the Education of Teachers in Science Annual Conference, Tampa, FL.

Butler, M. B. (1997, April). *A science education application of the theory of reasoned action*. National Science Teachers Association Annual Conference, New Orleans, LA.

Butler, M. B. (1996, October). Children's attitudes toward science: A socio-psychological perspective. Texas A&M University-Corpus Christi, College of Education Seminar, Corpus Christi, TX.

Butler, M. B. (1996, January). *Multicultural science education and performance assessment: What do they mean to each other?* Conference on Nontraditional Pedagogies, Corpus Christi, TX.

Invited Papers

Butler, M. B. (2004, February). *Science notebooks in the elementary classroom: A tool for improving learning and teaching.* Paper presented at an international conference at West Visayas State University, Iloilo City, Philippines.

Butler, M. B. (2004, February). *Have data, will code: Developing coding categories for your data set.* Paper presented at an international conference at West Visayas State University, Iloilo City, Philippines.

Other Presentations

Butler, M. B., & Brice, A. E. (2009, October). *Who wants to be a professor?* 47th biennial convocation of Kappa Delta Pi International Honor Society, Orlando, FL.

Williams, B., & Butler, M.B. (2007, February). *Hurricanes, earthquakes, and tomatoes?* Annual conference of the Georgia Science Teachers Association, Athens, GA.

Seung, E., Bryan, L., & Butler, M. (2006, April). *Improving middle school science preservice teachers' understanding of the nature of science.* Interactive Poster Session presented at the national conference of the National Association for Research in Science Teaching, San Francisco, CA.

Black, K. M., Akerson, V. L., Aram, R. J., Butler, M. B., Cannon, J. R., Crowther, D. T., Hand, B., & Bard, B. (2006, January). *Helping educators apply appropriate writing in and writing to learn science strategies.* Embedded workshop presented at the annual conference of the Association for Science Teacher Educators, Portland, OR.

Williams, B. Butler, M., & Frick, L. (2005, February). *In-depth marine science & technology for teachers.* Annual conference of the Georgia Science Teachers Association, Columbus, GA.

Morrison, J., Akerson, V. L., Black, K. M., Butler, M. B., Hand, B., & Yore, L. (2005, January). *Developing science literacy: Writing in science and writing to learn in science.* Embedded workshop presented at the annual conference of the Association for Science Teacher Educators, Colorado Springs, CO.

Butler, M. B., Tippins, D., Lee, S., & Calkin, J. (2003, April). *Science inquiry through children's literature.* Annual Conference on Children's Literature, The University of Georgia, Athens, GA.

Tippins, D., Butler, M. B., & Lee, S. (2003, February). *Contextual teaching and learning: Cases in the education of science teachers.* Annual conference of the Georgia Science Teachers Association, Jekyll Island, GA.

Butler, M. B., & Narayan, R. (2003, February). *Teaching about inquiry and the nature of science*. Annual I conference of the Georgia Science Teachers Association, Jekyll Island, GA.

Butler, M. B. (2002, February). *Science in all occasions*. Annual conference of the Georgia Science Teachers, Jekyll Island, GA.

Butler, M., & Bryan, L. (2002, February). *Who wants to be a professor? Getting into the academy*. College of Education and Department of Science of Education Colloquium. The University of Georgia, Athens, GA.

Butler, M. B. (2000, April). *What's in the library? Resources for Texas teachers*. National Science Teachers Association, Orlando, FL.

Areas of Research

Multicultural science teacher education

Coastal and environmental education professional development for teachers

Writing to learn in science

Case-based pedagogy in teacher education

Science content for elementary teachers

INSTRUCTION

a1. Courses Taught at the University of South Florida St. Petersburg

- *-EDG 4909- Science for All Students
- +EDG 6935- Seminar in Classroom Research
- *SCE 4313- Science for All Students
- *SCE 4310- Teaching Elementary School Science
- +SCE 5937- Selected Topics in Life Science Education
- +SCE 5937- Selected Topics in Physical/Earth Science Education
- +SCE 6616- Trends in Science Education

- + graduate course
- * undergraduate course
- course developed by instructor

a2. Courses Taught at the University of Georgia

- +ESCI 9700- Internship in Science Education Teaching (for Doctoral Students)
- +ESCI 9600- Educational Research in Science Education Internship
- +ESCI 8990- Doctoral Research Seminar in Science Education (Program Evaluation)
- +ESCI 7480/5480- Philosophy and Leadership in Science Classroom Practice
- +ESCI 7040- Teaching Strategies for Middle and Secondary School Science Teachers
- +ESCI 6420- Science for Early Childhood Education
- +ESCI 6230- Environmental Science Education
- +ESCI 6220- Marine Environmental Education
- *ESCI 4440- Science Teaching Methods in the Middle Grades
- *ESCI 4420- Science for Early Childhood Education
- *EDEC 4030L- Field Experience for Early Childhood Education

- + graduate course
- * undergraduate course

a3. Courses Taught at Texas A&M University- Corpus Christi

- *The American School
- +Applied Research and Professional Writing
- *Classroom Management and Instructional Evaluation– Elementary
- *Classroom Management and Instructional Evaluation– Secondary
- *Curriculum Organization and Teaching– Elementary
- *Curriculum Organization and Teaching– Secondary
- +The Integrated Curriculum (Field-Based Course)
- *Planning, Teaching, Assessing and Technology– Elementary (Field-Based Course)
- *-Principles and Strategies for Teaching Science in the Elementary School
- +Science through Children's Literature
- +Science through Games and Activities
- +Teaching Environmental Science for Elementary Teachers

- + graduate course
- * undergraduate course
- course developed by instructor

b. Supervision of Student Research

Doctoral Committees

Major Professor

Parlo, Amy, Ph.D., Science Education, Graduated, Spring 2007

Committee Member

Holt, Kiyra, Ph.D., Science Education, in progress
Freeman, Tonjua, Ph.D., Science Education, in progress
Vicente Handa, Ph.D., Science Education, Spring 2008
Deaton, Cynthia Minchew, Ph.D., Science Education, Summer 2007
Wheeler-Toppen, Jodi, Ph.D., Science Education, Summer 2006
Patterson, Phillip, Ph.D., Science Education, Spring 2006
Inyega, Justus, Ph.D., Science Education, Spring 2005
Lee, Seungyoung, Ph.D., Elementary Education, Fall 2003
Gonzalez-Espada, Wilson, Ph.D., Science Education, Fall 2001

Education Specialist (Ed.S.) Committees

Committee Member

Gann, April, Ed.S., Science Education, May 2005
Haugh, Thomas, Ed.S., Science Education, August 2002

Master of Art Committee

Major Professor

Lloyd, Kerrie Anne, Science Education, Chair, Spring 2004

Undergraduate Honor's Thesis

Butcher, Sara Mae Butcher. Thesis Director, Fall 2008

Recognitions and Outstanding Achievements

USF St. Petersburg Chancellor's Award for Teaching Excellence, College of Education, 2009

Florida Fish and Wildlife Conservation Commission, Certificate of Recognition for facilitating at least two Project WILD workshops in the calendar years, 2006, 2007, 2008, 2009

Alpha Phi Alpha Fraternity, Incorporated (2007)
Theta Eta Lambda Chapter, St. Petersburg, Florida

Recording Secretary, 2008-2010
Vice President, 2010-Present
"Man of the Year", 2011

University of Georgia, College of Education, D. Keith Osborn Award for Teaching Excellence,
2006 (1 of only 2 awarded)

Phi Delta Kappa International, 2002

Outstanding Young Men of America, 1998

Kappa Delta Pi International Honor Society in Education, 1998
Chapter Founding Co-Counselor, 2009-Present, USF St. Petersburg
Chapter Adviser, 1998-1999, Texas A&M University-Corpus Christi

"Top 40 under 40" Leaders under the age of 40 for the city of Corpus Christi, as selected by the
Corpus Christi Caller-Times, for exemplary work with the local schools and the local university,
February 1998

Phi Kappa Phi, International Honor Society, 1995

Delores E. Auzenne Graduate Fellowship, University of Florida, 1992

Graduate Minority Fellowship, University of Florida, 1989

Sigma Pi Sigma, Physics Honor Society, 1988
Professional Associations and Activities

Association for Science Teacher Educators
Membership and Participation Committee, 2005- 2008
Elections Committee (elected position), 2007-2010 (3-year term)
Chair, 2009-2010

National Science Teachers Association

National Association for Research in Science Teaching

Florida Association of Science Teachers

Pinellas County Elementary Science Teachers Association

Consultantships

Central Florida Aerospace Academy Curriculum Project, Coalition for Science Literacy,
University of South Florida, 05/10
Partnership to Rejuvenate & Optimize Mathematics and Science Education (PROMiSE).
Professional Design Team Facilitator, 02-07/08

ESOL Miami University (Ohio) ESOL Project institute. Trainer, 05/08

Competency Development and Competency Validation Meetings Participant. Florida Teacher Certification Examination, Middle Grades General Science 5-9, 02/-4/08

SERVICE

a. Service to the Profession

Editorial Board Membership

International Journal of Environmental and Science Education, 2006-Present

Journal of Research in Science Teaching, 2008-2011

Journal of Science Teacher Education, 2008-Present

Manuscript Reviewer for Professional Journals

Science Education, 2006- Present

Tapestry Journal, 2009-Present

Journal of Research in Science Teaching, 2001- 2008

Journal of Science Teacher Education, 2008

The Negro Educational Review, July 2005

Task Force Member

National Science Teachers Association's New Visions Task Force for Preservice Teacher Preparation, October 2010- Present.

Journal Virtual Issue

Committee Member, *Journal of Research in Science Teaching* Virtual Issue on Diversity, 2010-Present.

Professional Conference Roles

2012 AERA Conference, Division C, Section 4 (Science), Conference Co-Chair

2012 ASTE Conference, Conference Co-Chair

Reviewer of Textbook Prospectuses

Urban science and mathematics teaching learning and leading: Stories of success and challenges. Arlington, VA: NSTA Press.

Science now: Real science for real children. Columbus, OH: Pearson Merrill Prentice Hall.

Integrating science, thinking, and children's literature for content literacy. Norwood, MA: Christopher-Gordon Publishers.

Helping students who struggle with math and science. Norwood, MA: Christopher-Gordon Publishers.

Reviewer of Grant Proposals

Louisiana Board of Regents Research Commercialization and Educational Enhancement Program, 2007.

National Science Foundation, Discovery Research K-12 Program Preliminary Grants, 2006.

US Department of Education, "No Child Left Behind", Title III Part A, Improving Teacher Quality Higher Education, 2003, 2004, 2005.

National Science Foundation, Math and Science Partnership Program, 2002 & 2003.

US Department of Education, Eisenhower Program for Improving Mathematics and Science Instruction, 2001 & 2002.

Reviewer of Conference Proposals

National Association for Research in Science Teaching (NARST) annual international conference, 2002-2006, 2008

Expert Reviewer of draft of new Sunshine Standards for Science. Florida Department of Education. December 2007

Reviewer of Curriculum Materials

Smiley Face Math for Rising 3rd Graders, October 2009. Can be found online at: www.cdnportfolio.net/smileyfacemath

Reviewer of Faculty Promotion Materials

Ms. Anne L. Frick, University of Georgia

Invited Referee

National Institute of Education, Nanyang Technological University, Singapore. Review of a Science Education Grant Proposal, 2008

Invited Participation

Invited panelist for the Presidential Awards for Excellence in Mathematics and Science Teaching (Elementary Science), Arlington, VA, 07/10

Invited facilitator and panelist for the National Association for Research in Science Teaching pre-conference workshop for scholars of color, Garden Grove, CA, 04/09

Invited panelist for the National Association for Research in Science Teaching Graduate Student Forum, Baltimore, MD, 04/08

Invited discussion group member on increasing diversity in the areas of environmental research and education. National Science Foundation's Advisory Committee for Environmental Research and Education (AC-ERE). Washington, DC, 11/06

Invited member of the Diverse Committee and participate in a meeting for the Center for Ocean Sciences Education Excellence- Southeast. Charleston, SC, 03/06

Second Annual Research Symposium, "Optimizing Science Achievement for all Students". Hosted by the Maryland Institute for Minority Achievement and Urban Education, University of Maryland, 09/05

b. Service to Schools

Presenter at Bay Point Elementary School, St. Petersburg, 5000 Role Models and 5000 Pearls, "Math and its connections to our lives", 03/02/10

Host and Presenter at Family Science Night at Just Elementary School, Tampa, FL, 01/12/10

Presenter at Academy Prep, St. Petersburg. Implementing the New Science Sunshine State Standards, 08/14/08

Presenter at the USF St. Petersburg College of Education Teacher Leadership Institute, 05/07

Consultant to Tarpon Springs Fundamental Elementary School, Pinellas County. Topic: Action Research through migrations, 09/06-06/07

Invited Presenter of a Pre-conference workshop on Culturally Responsive Pedagogy. National Youth At-Risk Conference, Savannah, Georgia, 03/07

Guest Presenter at North Shore Elementary School, Pinellas County Schools, 3rd Grade, Mrs. Campbell. Topic: Density, 09/06

Consultant to Screven County Schools and Georgia Southern University, Statesboro, Georgia Topic: Strategies to Close the Achievement Gap, 09/06

Consultant to Georgia Southern University, FIPSE Grant Office Workshop: Culturally Responsive Teaching, 02/06

Consultant to Jefferson High School, Jefferson City Schools (Georgia). Physical Science, Biology, Chemistry, and Physics Workshop: Unpacking the GPS Standards, 07/05

Consultant to Project TEAMS: Teaching Environmental and Multicultural Science, an Improving Teaching Quality Program-funded teacher professional development experience for Hall County, Georgia, 06/05-07/06

Consultant to Clarke County Schools (Georgia). Mathematics and Science Summit, 06/05

Science Fair Judge, Johnson High School, Gainesville, Georgia, 05/05

Certified as a facilitator for Project WILD, 04/05

Consultant to Environmental Literacy Initiative, an Improving Teaching Quality Program-funded teacher professional development experience at the Rock Eagle 4-H Center, Eatonton, Georgia, 06-07/05

Consulted to SERVE on studying the utility of science notebooks in elementary schools in the Huntsville, Alabama area, 10/01-05/03

Assisted Madison City Schools (Alabama) with the implementation of science notebooks into their elementary and middle school kit-based science program, 11/01

Consultant to the Alabama Mathematics, Science and Technology Initiative (AMSTI) Committee, 2000

c. Service to USF St. Petersburg

USF System
Newly-created System Faculty Advisory Council, Fall 2010-Present

University

College of Education Representative on the University Faculty Senate (Elected Position for a two-year term; one additional year added to term via revision of constitution), 09/09-Present

"The Science of Our Lives: Bridging the Parallel Universes. Science Café Library Talk, Poynter Library, 03/04/10

Invited Talk, "Culturally Relevant Pedagogy", The Psychological Student Organization, 01/24/08

Regional Vice Chancellor for Academic Affairs Search Committee, 05/07-02/08

Invited Speaker on Community Science Night as part of Senator Bob Graham's visit with USF St. Petersburg's Florida Studies and Center for Civic Engagement programs, 10/07
Center for Civic Engagement Fall 2007 Course Development Grant applications review, 05/07

Science and Technology Building Planning Committee, 05/07-06/08

Insight into a civically engaged classroom. A roundtable discussion with the Spring 2007 Center

for Civic Engagement Course Development grant recipients, 04/13/07

Panelist for a discussion of the movie, "Flock of Dodos", as part of a campus-wide Darwin Day event, "Communicating Science in the 21st Century", 02/07

College of Education

Reading Education Faculty Search Committee, Fall 2010- Present

Founding Co-Counselor, Kappa Delta Pi International Society in Education, Alpha Zeta Beta Chapter, Spring 2010- Present

Advisor, Masters Program in Mathematics and Science, Spring 2010-Present

Co-Advisor with Dr. Andy Reeves, Masters Program in Mathematics and Science, Fall 2009

Assessment Committee, 10/08-Present

College Council, 09/09-08/09

Chair, 08-09

Vice Chair, 07-08

Parliamentarian, 07-08

College of Education Institutional Representative to the American Association of Colleges of Teacher Education (AACTE), 09/07-Present

Curriculum and Program Committee, 06/06-08/07

Program

Mathematics Education Faculty Search Committee, 09/08-02/09

Science Education Faculty Search Committee, 09/06-03/07

University

2005-2006 Organizing Committee Member, "The Intersection of Diversity and Learning: A National Conference". NSF-funded conference hosted by the University of Georgia, to be held May 18-21, 2006

2004-2006 Reviewer, Georgia Systemic Teacher Education BRIDGE Program

College of Education

2002-2004 Early Childhood Education Advisory Committee

2001-2002 Department of Elementary Education Search Committee

Department of Science Education

- 2003-2004 Elementary Program Committee
- 2003-2004 Middle Grades Program Committee, Chair
- 2003-2004 Colloquium Committee
- 2003-2004 Multicultural Committee

Department of Mathematics and Science Education

- 2004-2006 Bylaws Committee

Department of Mathematics and Science Education, Science Education Program

- 2004-2005 Elementary Education Committee
- 2004-2005 Colloquium Committee, Chair

e. Service to Texas A&M University-Corpus Christi

State

- 09/96-05/98 Educator Preparation Improvement Initiative Peer Assistant
- Spring 1998 Environmental Protection Agency, Region Six Grant Proposal Reviewer

University

- 01-07/99 Faculty Athletics Representative
- 04/98-07/99 Intercollegiate Athletics Council, Chair
- Fall 1997 Sponsored Programs Coordinator Search Committee, Chair
- 1997-1999 Undergraduate Admissions Committee

- 05/97-06/99 Faculty Senate
 - Ad Hoc Committee on Web page Design, 05-08/98
 - Ad Hoc Committee on Faculty Compensation, 01-06/98
 - Bylaws and Elections Committee, 07/97-06/98

- 09/96-06/98 Core Curriculum Advising Subcommittee
- 09/96-06/99 Title III Advisory Committee

06/96-05/98 Freshman Advisor

College of Education

05/98-07/99 Kappa Delta Pi Honor Society, Chapter Counselor

6/97 Faculty Research Enhancement Proposal Review Committee

01/97-06/99 College Liaison with the Carroll High School Educational Assistant Cooperative

1997-1999 Computing Committee

1996-1998 Curriculum Coordinating Committee

1995-1999 Citgo Science Tower Development Committee

1995-1996 Early Childhood Development Center Advisory Council

Department of Curriculum & Instruction

10/98 Mathematics Education Faculty Search Committee, Chair

01-08/98 Field-Based Faculty Search Committee

1997-1998 Reading Faculty Search Committee Fall

01/97-07/99 Webmaster for departmental web page

01/96-07/99 Assisted with development of the Field-Based Teacher Education Program

f. Service to St. Petersburg, Florida Community

2008-2010 Volunteer, *St. Petersburg Times* Festival of Reading

08, 09 & 10/09 Science Sunday at New Philadelphia Community Church

02/07 & 02/08 Reader for Pinellas Urban League Black History Month Essay Contest

10/06-09/09 Board Member, Science Center of Pinellas County

10/06 Guest Presenter, "Density", North Shore Elementary School 3rd Grade
(Mrs. Campbell), Pinellas County Schools

08/06 Guest Co-presenter, "Framing the Research Question", Tarpon Springs
Fundamental School, Pinellas County Schools

g. Service to Corpus Christi, Texas Community

- 02/99 Science Fair Judge Moore Elementary School
- 12/98-06/99 St. Paul United Methodist Church Administrative Council, Chair
- 09/97-06/99 St. Paul United Methodist Church Study/Futures Committee
Chair, 09/97-05/98
Vice Chair, 06/98-06/99
- 12/96-06/99 St. Paul United Methodist Church United Methodist Men
Vice President, 01/97-01/99

Invited Speeches

- 02/99 Guest Speaker. Black History Month, Coles Elementary School
- 05/98 Keynote Speaker. Black Methodists for Church Renewal
- 10/96 Guest Speaker. St. Paul United Methodist Men Monthly Meeting
- 01/96 Guest Speaker. King High School National Beta Club Induction Ceremony

h. Service to Gainesville, Florida Community

- 01/94 P.K. Yonge Middle School Science Fair, Co-Coordinator
- 02/93 Alachua County Science Fair, Judge
- 02/93 Guest Speaker. African-American Scientists. P.K. Yonge Elementary School
- 03/92 Florida State Science Fair, University of Florida, Judge Facilitator
- 11/91 Science Fair, Fort Clarke Middle School, Judge
- 10/91 Science Fair, P.K. Yonge, Judge Facilitator